

## **BAB VI**

### **KESIMPULAN DAN SARAN**

#### **6.1 Kesimpulan**

Berdasarkan penelitian yang telah dilakukan, dapat disimpulkan bahwa pengembangan aplikasi sistem informasi Technocenter *form order monitoring* menggunakan metode *Scrum* terdiri dari beberapa tahapan yaitu: (1) *product backlog*, (2) *sprint planning meeting*, (3) *sprint backlog*, (4) *sprint*, (5) *daily stand up meetng*, (6) *sprint review*, (7) *sprint retrospective*. Penggunaan metode *Scrum* dapat mengatasi beberapa kendala yang dialami pada saat fase pengembangan aplikasi dimulai. *Scrum* juga dapat mengatasi perubahan kebutuhan pada saat fase pengembangan aplikasi sedang berlangsung. Contohnya seperti saat *product backlog* yang belum terselesaikan pada fase *sprint* awal belum selesai, maka *product backlog* tersebut dapat diulas dan dikerjakan kembali pada fase *sprint* berikutnya. *Controlling* juga dapat dengan mudah dilakukan karena setiap harinya selalu diadakan *meeting* secara berkala pada tahapan *daily scrum*.

Hasil penelitian ini menghasilkan suatu perangkat lunak sistem informasi yang membantu *requester order* dari berbagai kantor cabang ACC di seluruh indonesia dalam melakukan pengajuan/permintaan SDM (*resource needs*) ke Technocenter untuk proyek yang *requester order* sedang bangun. Serta dapat membantu *techno project admin* dalam mengelola permintaan *resource needs* dari *requester order*. Adapun beberapa fitur yang dibuat berdasarkan kebutuhan dari *product owner* adalah sebagai berikut :

- a. Pengelolaan proyek yang diajukan (*incoming project*).
- b. Pengelolaan proyek yang diterima (*registered project*).
- c. Pengelolaan proyek yang ditolak (*rejected project*).
- d. Pengelolaan *resource needs*.
- e. Pengelolaan *user*.
- f. Pengelolaan *dashboard*.

## 6.2 Saran

Saran yang bisa dijadikan bahan pertimbangan untuk melakukan penelitian selanjutnya adalah:

1. Perlu adanya penelitian lanjutan tentang perancangan sistem informasi menggunakan metode *Scrum*.
2. Melakukan lanjutan pengembangan sistem informasi Technocenter *form order monitoring*.



## DAFTAR PUSTAKA

- [1] H. R. Suharno, N. Gunantara, and M. Sudarma, “Manajemen Proyek Dalam Industri & Organisasi Digital,” vol. 19, no. 2, 2020.
- [2] I. Scrum, P. Pengembangan, and A. Sistem, “RESERVASI ONLINE MENGGUNAKAN PHP Ndaru Ruseno , Program Studi Teknik Informatika , STMIK Bani Saleh , Penelitian “ Implementasi Scrum pada Pengembangan Aplikasi Sistem Reservasi Online “ bertujuan untuk membantu mengelola sistem penyewaan fasilitas di Isl,” vol. 9, no. 1, pp. 8–15, 2019.
- [3] D. Rahmawati, “Analisis Faktor Faktor yang Berpengaruh Terhadap Pemanfaatan Teknologi Informasi,” *J. Ekon. dan Pendidik.*, vol. 5, no. 1, pp. 107–118, 2012, doi: 10.21831/jep.v5i1.606.
- [4] J. Publikasi and T. Informatika, “Implementasi metode scrum pada perancangan sistem informasi tata usaha sekolah berbasis web,” vol. 1, no. 1, 2022.
- [5] M. Nurdin, “PERANCANGAN SISTEM INFORMASI PURCHASE ORDER BARANG MENGGUNAKAN FORECASTING PADA TOKO GROSIR ( STUDI KASUS TOKO GROSIR HIDAYAH ).”
- [6] D. Of, W. W. Recording, and A. At, “PERANCANGAN APLIKASI PENCATATAN PERSEDIAAN GUDANG BERBASIS WEBSITE PADA CV . WAHANA LANGGENG SEMBADA DENGAN METODE AGILE SCRUM DEVELOPMENT DESIGN OF WEBSITE-BASED WAREHOUSE RECORDING APPLICATION AT,” vol. 8, no. 5, pp. 7241–7249, 2021.
- [7] D. Darmawan and A. Ratnasari, “Rancang Bangun Sistem Informasi Manajemen Proyek Berbasis Web Pada Pt Seatech Infosys,” *J. Sisfokom (Sistem Inf. dan Komputer)*, vol. 9, no. 3, pp. 365–372, 2020, doi: 10.32736/sisfokom.v9i3.931.
- [8] A. Rama Febrianto, A. Wulansari, and L. Latipah, “Pengembangan Sistem Pengelolaan dan Pemantauan Proyek dengan Metode Agile Pola Scrum,” *J. Tek. Inform. dan Sist. Inf.*, vol. 6, no. 2, pp. 206–221, 2020, doi: 10.28932/jutisi.v6i2.2592.

- [9] V. Chandra, “Comparison between Various Software Development Methodologies,” *Int. J. Comput. Appl.*, vol. 131, no. 9, pp. 7–10, 2015, doi: 10.5120/ijca2015907294.
- [10] A. A. Nugraha, F. Amalia, and A. H. Brata, “Pengembangan Media Pembelajaran Perakitan Komputer Dengan Menerapkan Metode Agile Software Development,” *J. Pengemb. Teknol. Inf. dan Ilmu Komput. Univ. Brawijaya*, vol. 2, no. 6, pp. 2200–2210, 2018, [Online]. Available: <http://j-ptiik.ub.ac.id>.
- [11] M. Mahalakshmi and M. Sundararajan, “Traditional SDLC Vs Scrum Methodology – A Comparative Study,” vol. 3, no. 6, pp. 2–6, 2013.
- [12] S. Hadji, M. Taufik, and S. Mulyono, “Implementasi Metode Scrum Pada Pengembangan Aplikasi Delivery Order Berbasis Website ( Studi Kasus Pada Rumah Makan Lombok Idjo Semarang ),” *Konf. Ilm. Mhs. Unissula 2*, pp. 32–43, 2019.
- [13] S. Hardani, “Pengembangan Sistem Informasi KPR Syariah Dengan Metode Scrum,” *J. Ilmu Pengetah. dan Teknol. Komput.*, vol. 4, no. 2, pp. 223–230, 2019.
- [14] R. Sistem, “JURNAL RESTI Pengembangan Aplikasi Tiga-Tingkat Menggunakan Metode Scrum pada,” vol. 5, pp. 169–176, 2022.
- [15] M. A. Dewi and R. Irham, “Penerapan Agile Scrum Pada Pengembangan Aplikasi Bimbingan Daring Skripsi Mahasiswa,” 2021.
- [16] Y. Wahyudin and D. N. Rahayu, “Analisis Metode Pengembangan Sistem Informasi Berbasis Website: A Literatur Review,” *J. Interkom J. Publ. Ilm. Bid. Teknol. Inf. dan Komun.*, vol. 15, no. 3, pp. 26–40, 2020, doi: 10.35969/interkom.v15i3.74.
- [17] M. Manuhutu and J. Wattimena, “Perancangan Sistem Informasi Konsultasi Akademik Berbasis Website,” *J. Sist. Inf. Bisnis*, vol. 9, no. 2, p. 149, 2019, doi: 10.21456/vol9iss2pp149-156.
- [18] S. Anwar, L. Andrawina, and A. F. Rizana, “Perancangan Sistem Informasi

Untuk Pengelolaan Data Warga Dalam Tingkat RT Dengan Metode Scrum,” *e-Proceeding Eng.*, vol. 7, no. 2, pp. 6137–6146, 2020.

- [19] D. Riswanda and A. T. Priandika, “Analisis Dan Perancangan Sistem Informasi Manajemen Pemesanan Barang Berbasis Online,” *J. Inform. dan Rekayasa Perangkat Lunak*, vol. 2, no. 1, pp. 94–101, 2021, [Online]. Available: <http://jim.teknokrat.ac.id/index.php/informatika/article/view/730>.
- [20] W. Warkim, M. H. Muslim, F. Harvianto, and S. Utama, “Penerapan Metode SCRUM dalam Pengembangan Sistem Informasi Layanan Kawasan,” *J. Tek. Inform. dan Sist. Inf.*, vol. 6, no. 2, pp. 365–378, 2020, doi: 10.28932/jutisi.v6i2.2711.
- [21] A. Ozierańska, A. Skomra, D. Kuchta, and P. Rola, “The critical factors of Scrum implementation in IT project— the case study,” *J. Econ. Manag.*, vol. 25, no. 3, pp. 79–96, 2016, doi: 10.22367/jem.2016.25.06.
- [22] W. S. Jaya, “JITE ( Journal of Informatics and Telecommunication Engineering ) Design and Development of Software Project Management System using Scrum,” vol. 5, no. January, pp. 483–493, 2022.
- [23] J. Sutherland and K. Schwaber, “The Scrum Papers : Nut , Bolts , and Origins of an Agile Framework The Scrum Papers : Nut , Bolts , and Origins of an Agile Framework.”
- [24] F. Dakwah, I. Sunan, and A. Surabaya, “PARTICIPANT OBSERVATION DAN PERSONAL DOCUMENTS DALAM PENELITIAN KUALITATIF BKI,” vol. 02, no. 01, pp. 48–64, 2012.
- [25] D. W. A. Nugroho, “Rancang Bangun Sistem Informasi Gelanggang Olahraga berbasis Web dengan Metode Scrum,” *JATISI (Jurnal Tek. Inform. dan Sist. Informasi)*, vol. 8, no. 4, pp. 1733–1749, 2021, doi: 10.35957/jatisi.v8i4.1132.
- [26] Y. Palopak and R. S. L. Tobing, “Perancangan Sistem Informasi Pencatatan Form Order Berbasis Web pada PT . United Trans Perkasa Designing Order Form Recording Web-based Information System at PT . United Trans Perkasa,”

no. 1, pp. 49–58.

## LAMPIRAN

### Lampiran 1.1 API *user login*

API Desc : API ini digunakan untuk akses web dan cms semua dalam sistem Technocenter formulir order monitoring menggunakan NPK dan Password.

URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG

Endpoint : /promag/loginuser

Method : POST

Request Type : JSON

Request Format :

Field	Type	Mandatory	Desc
npk	VARCHAR(5)	Y	Masukan NPK
Pass	VARCHAR(255)	Y	Masukan Password, diubah dengan dbms_crypto.hash_md5

Contoh Request :

```
{  
    "inputLogin": {  
        "npk": "91878",  
        "pass": "Murmeltier22"  
    }  
}
```

Respon Type : JSON

Respon Format :

Table MST\_USER

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T

OUT_MESS	VARCHAR(2000)	Login Sukses
<b>OUT_DATA</b>		
OUT_ID	NUMBER	
OUT_USERNAME	VARCHAR(255)	
OUT_NPK	VARCHAR(5)	
OUT_EMAIL	VARCHAR(255)	
OUT_PHONE	VARCHAR(15)	
OUT_ROLE	VARCHAR(1)	

### Lampiran 2.1 API all project management

API Desc : API ini digunakan untuk mengirimkan semua master data proyek.  
 URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG  
 Endpoint : /promag/transaction  
 Method : POST  
 Request Type : JSON  
 Request Format : -  
 Contoh Request : -  
 Respon Type : JSON  
 Respon Format :

#### Table TRANSACTION

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T
OUT_MESS	VARCHAR(2000)	Sukses
<b>OUT_DATA</b>		
ID_TRANS	NUMBER	
NAMES	VARCHAR(255)	
PHONE	VARCHAR(255)	
EMAIL	VARCHAR(255)	

SECTIONS	VARCHAR(1)	
PRJ_NAME	VARCHAR(255)	
PRJ_DESC	VARCHAR(255)	
PRJ_SIZE	VARCHAR(1)	
ID_MM	NUMBER	
SUB_MM_NAME	VARCHAR(255)	
QTY	NUMBER	
FILES	VARCHAR(255)	
PRJ_TIPE	VARCHAR(1)	
PRJ RID	VARCHAR(255)	
LINK_BOARD	VARCHAR(255)	
EMAIL_LIST	VARCHAR(255)	
ID_USER	NUMBER	
TIME_UPDATE	DATE	
STATUS	VARCHAR(1)	
CREATE_AT	DATE	

### Lampiran 3.1 API project management by id

API Desc : API ini digunakan untuk mengirimkan data Transaction sesuai Id yang dimasukan.

URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG

Endpoint : /promag/transbyid

Method : POST

Request Type : JSON

Request Format :

Field	Type	Mandatory	Desc
idTrans	NUMBER	Y	Masukan angka sesuai data

Contoh Request :

```
{
  "inputMmForm": {
```

```

        "idTrans" : "1"
    }
}

```

Respon Type : JSON

Respon Format :

Table TRANSACTION

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T
OUT_MESS	VARCHAR(2000)	Sukses
<b>OUT_DATA</b>		
ID_TRANS	NUMBER	
NAMES	VARCHAR(255)	
PHONE	VARCHAR(255)	
EMAIL	VARCHAR(255)	
SECTIONS	VARCHAR(1)	
PRJ_NAME	VARCHAR(255)	
PRJ_DESC	VARCHAR(255)	
PRJ_SIZE	VARCHAR(1)	
ID_MM	NUMBER	
SUB_MM_NAME	VARCHAR(255)	
QTY	NUMBER	
FILES	VARCHAR(255)	
PRJ_TIPE	VARCHAR(1)	
PRJ RID	VARCHAR(255)	
LINK_BOARD	VARCHAR(255)	
EMAIL_LIST	VARCHAR(255)	
ID_USER	NUMBER	
TIME_UPDATE	DATE	
STATUS	VARCHAR(1)	

CREATE_AT	DATE	
-----------	------	--

Contoh Respon :

```
{
    "OUT_STAT": "T",
    "OUT_MESS": "Sukses",
    "OUT_DATA": [
        {
            "ID_TRANS": 1,
            "NAMES": "Udin alaudin",
            "PHONE": "085775406488",
            "EMAIL": "udin@acc.co.id",
            "SECTIONS": "4",
            "PRJ_NAME": "Generated by automated test (one step) edited",
            "PRJ_DESC": "Generated by automated test (one step), and this is step before batch test edited",
            "PRJ_SIZE": "2",
            "ID_MM & QTY": [
                {
                    "ID_MM": 1,
                    "SUB_MM_NAME": "Visio edited",
                    "QTY": 2
                },
                {
                    "ID_MM": 3,
                    "SUB_MM_NAME": "Ionic",
                    "QTY": 1
                },
                {
                    "ID_MM": 7,
                    "SUB_MM_NAME": "PLSQL edited",

```

```

    "QTY": 3
  },
  {
    "ID_MM": 10,
    "SUB_MM_NAME": "Selenium edited",
    "QTY": 2
  }
],
"FILES": "https://acc-dev.outsystemsenterprise.com/ACCProMAG",
"PRJ_TIPE": "2",
"PRJ RID": "REQ11113",
"LINK_BOARD": "https://acc-projects.monday.com/boards/23558783552",
"EMAIL_LIST": "shazi2@acc.co.id, udin2@gmail.com, siapa2@email.co.id",
"ID_USER": 1,
"TIME_UPDATE": "2022-04-04 15:26:09.0",
"STATUS": "F",
"CREATE_AT": "2022-04-03"
}
]
}

```

#### **Lampiran 4.1 API *insert project management***

API Desc : API ini digunakan untuk membuat data Transaction.

URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG

Endpoint : /promag/transinsert

Method : POST

Request Type : JSON

Request Format :

Field	Type	Mandatory	Desc
NAMES	VARCHAR(255)	Y	NAMES

PHONE	VARCHAR(255)	Y	PHONE
EMAIL	VARCHAR(255)	Y	EMAIL
SECTIONS	VARCHAR(1)	Y	SECTIONS
PRJNAME	VARCHAR(255)	Y	PRJNAME
PRJDESC	VARCHAR(255)	Y	PRJDESC
PRJSIZE	VARCHAR(1)	Y	PRJSIZE
IDMM	VARCHAR(255)	Y	IDMM
QTY	VARCHAR(255)	Y	QTY
FILES	VARCHAR(255)	Y	FILES
PRJTIPE	VARCHAR(1)	Y	PRJTIPE
PRJRID	VARCHAR(255)	Y	PRJRID
LINKBOARD	VARCHAR(255)	Y	LINKBOARD
EMAILLIST	VARCHAR(255)	Y	EMAILLIST

Contoh Request :

```
{
  "insertTrans" : {
    "names" : "ProMAG",
    "phone" : "085158150404",
    "email" : "promag@acc.co.id",
    "sections" : "1",
    "prjname" : "ACC ProMAG",
    "prjdesc" : "Membuat sistem request order dalam Astra Group",
    "prjsize" : "1",
    "idmm" : "01;02;03;04;05;06;07;08",
    "qty" : "01;02;02;01;03;01;01;01",
    "files" : "drive.com",
    "prjtipe" : "1",
    "prjrid" : "REQ12345678",
    "linkboard" : "1",
    "emaillist" : "hahahaha@acc.co.id;hehehehe@acc.co.id;hihihihi@acc.co.id"
  }
}
```

```

    }
}

```

Respon Type : JSON

Respon Format :

Table TRANSACTION

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T
OUT_MESS	VARCHAR(2000)	Transaksi berhasil ditambah!
<b>OUT_DATA</b>		

#### Lampiran 5.1 API update project management

API Desc : API ini digunakan untuk mengubah data Transaction sesuai Id yang dimasukan.

URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG

Endpoint : /promag/transupdate

Method : POST

Request Type : JSON

Request Format :

Field	Type	Mandatory	Desc
IDTRANS	NUMBER	Y	IDTRANS
NAMES	VARCHAR(255)	Y	NAMES
PHONE	VARCHAR(255)	Y	PHONE
EMAIL	VARCHAR(255)	Y	EMAIL
SECTIONS	VARCHAR(1)	Y	SECTIONS
PRJNAME	VARCHAR(255)	Y	PRJNAME
PRJDESC	VARCHAR(255)	Y	PRJDESC
PRJSIZE	VARCHAR(1)	Y	PRJSIZE
IDMM	VARCHAR(255)	Y	IDMM
QTY	VARCHAR(255)	Y	QTY

FILES	VARCHAR(255)	Y	FILES
PRJTIPE	VARCHAR(1)	Y	PRJTIPE
PRJRID	VARCHAR(255)	Y	PRJRID
LINKBOARD	VARCHAR(255)	Y	LINKBOARD
EMAILLIST	VARCHAR(255)	Y	EMAILLIST

Contoh Request :

```
{
  "updateTrans" : {
    "idtrans" : 8,
    "names" : "ProMAG",
    "phone" : "085158150404",
    "email" : "promag@acc.co.id",
    "sections" : "1",
    "prjname" : "ACC ProMAG",
    "prjdesc" : "Membuat sistem request order dalam Astra Group",
    "prjsize" : "1",
    "idmm" : "01;02;03;04;05;06;07;08",
    "qty" : "01;02;02;01;03;01;01;01",
    "files" : "drive.com",
    "prjtipe" : "1",
    "prjrid" : "REQ12345678",
    "linkboard" : "1",
    "emaillist" : "hahahaha@acc.co.id;hehehehe@acc.co.id;hihihihi@acc.co.id"
  }
}
```

Respon Type : JSON

Respon Format :

Table TRANSACTION

Field	Type	Desc
<b>Header</b>		

OUT_STAT	VARCHAR(1)	T
OUT_MESS	VARCHAR(2000)	Transaksi berhasil diubah!
<b>OUT_DATA</b>		

### Lampiran 6.1 API delete project management

Desc : API ini digunakan untuk menghapus data proyek sesuai Id yang dimasukan.

URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG

Endpoint : /promag/transdelete

Method : POST

Request Type : JSON

Request Format :

Field	Type	Mandatory	Desc
IDTRANS	NUMBER	Y	IDTRANS

Contoh Request :

```
{
  "deleteTrans": {
    "idtrans": 4
  }
}
```

Respon Type : JSON

Respon Format :

Table TRANSACTION

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T
OUT_MESS	VARHCAR(2000)	Transaksi sudah dihapus!
<b>OUT_DATA</b>		

### **Lampiran 7.1 API *all resource needs***

API Desc : API ini digunakan untuk mengirimkan semua master data Master Resource Need.

URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG

Endpoint : /promag/mstrn

Method : POST

Request Type : JSON

Request Format : -

Contoh Request : -

Respon Type : JSON

Respon Format : -

Table MST\_RN\_PROMAG

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T
OUT_MESS	VARCHAR(2000)	Data
<b>OUT_DATA</b>		
ID_RN	VARCHAR(1)	
RN_NAME	VARCHAR(255)	

### **Lampiran 8.1 API *update list resource needs***

API Desc : API ini digunakan untuk mengubah data dalam master data Master Management berdasarkan ID Master Management.

URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG

Endpoint : /promag/updatemm

Method : POST

Request Type : JSON

Request Format : -

Field	Type	Mandatory	Desc
Idmm	NUMBER	Y	Increment angka

subname	VARCHAR(255)	Y	Subname bebas sesuai kebutuhan
---------	--------------	---	--------------------------------

Contoh Request :

```
{
  "updateMM" : {
    "idmm" : "11",
    "subname" : "ProMAG"
  }
}
```

Respon Type : JSON

Respon Format :

Table MST\_MM\_PROMAG

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T
OUT_MESS	VARCHAR(2000)	DATA SUCCESSFULL CHANGED!
<b>OUT_DATA</b>		

### Lampiran 9.1 API *delete resource needs*

API Desc : API ini digunakan untuk menghapus data dalam master data

Master Management berdasarkan ID Master Management.

URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG

Endpoint : /promag/deletemm

Method : POST

Request Type : JSON

Request Format :

Field	Type	Mandatory	Desc
Idmm	NUMBER	Y	Increment angka

Contoh Request :

```
{
  "deleteMM" : {
```

```

    "idmm" : "11"
}
}

```

Respon Type : JSON

Respon Format :

Table MST\_MM\_PROMAG

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T
OUT_MESS	VARHCAR(2000)	Data Was Deleted!
<b>OUT_DATA</b>		

#### Lampiran 10.1 API *all user*

API Desc : API ini digunakan untuk mengirimkan semua master data Master User ProMAG.

URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG

Endpoint : /promag/user

Method : POST

Request Type : JSON

Request Format : -

Contoh Request : -

Respon Type : JSON

Respon Format :

Table MST\_USER\_PROMAG

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T
OUT_MESS	VARCHAR(2000)	Successfully
<b>OUT_DATA</b>		
ID_USER	NUMBER	

USR_NAME	VARCHAR(255)	
NPK	VARCHAR(5)	
EMAIL	VARCHAR(255)	
PHONE	VARCHAR(15)	
USR_ROLE	VARCHAR(1)	
USR_PASSWORD	VARCHAR(255)	dbms_crypto.hash_md5
FLAG_ACT	VARCHAR(1)	

### Lampiran 11.1 API user by NPK

API Desc

: API ini digunakan untuk mengirimkan master data

Master User ProMAG sesuai dengan NPK yang dimasukan.

URL & Authorization

: menggunakan ketentuan yang ada di SoftwareAG

Endpoint

: /promag/usernpk

Method

: POST

Request Type

: JSON

Request Format

:

Field	Type	Mandatory	Desc
npk	VARCHAR(5)	Y	Masukan NPK

Contoh Request

:

```
{
  "input GetUser": {
    "nPK": "91878"
  }
}
```

Respon Type

: JSON

Respon Format

:

Table MST\_USER\_PROMAG

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T

OUT_MESS	VARHCAR(2000)	Data
<b>OUT_DATA</b>		
ID_USER	NUMBER	
USR_NAME	VARCHAR(255)	
NPK	VARCHAR(5)	
EMAIL	VARCHAR(255)	
PHONE	VARCHAR(15)	
USR_ROLE	VARCHAR(1)	

#### Lampiran 12.1 API update user

- API Desc : API ini digunakan untuk mengubah data dalam master data User.
- URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG
- Endpoint : /promag/updateuser
- Method : POST
- Request Type : JSON
- Request Format :

Field	Type	Mandatory	Desc
Iduser	NUMBER	Y	Masukan angka sesuai data
Npk	VARCHAR(5)	Y	Masukan NPK
Nama	VARCHAR(255)	Y	Masukan nama
Email	VARCHAR(255)	Y	Masukan email format @acc.co.id
Phone	VARCHAR(255)	Y	Masukan nomor
Role	VARCHAR(1)	Y	1-2
Password	VARCHAR(255)	Y	dbms_crypto.hash_md5
Flagact	VARCHAR(1)	Y	Y atau N

Contoh Request :

```
{
  "updateUser" : {
    "iduser" : "3",
    "name" : "Andrea",
    "email" : "andrea@acc.co.id",
    "phone" : "081234567890",
    "role" : "1"
  }
}
```

```

    "npk" : "98989",
    "name" : "Karel",
    "email" : "aku@acc.co.id",
    "phone" : "085158150404",
    "role" : "Admin",
    "password" : "Mantabjiwa",
    "flagact" : "N"
}
}

```

Respon Type : JSON

Respon Format :

Table MST\_USER\_PROMAG

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T
OUT_MESS	VARCHAR(2000)	User berhasil diubah!
<b>OUT_DATA</b>		

### Lampiran 13.1 API *delete user*

API Desc : API ini digunakan untuk menghapus data dalam master data User.

URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG

Endpoint : /promag/deleteuser

Method : POST

Request Type : JSON

Request Format :

Field	Type	Mandatory	Desc
Npk	VARCHAR(5)	Y	Masukan NPK

Contoh Request :

```
{
}
```

```

"deleteUser" : {
    "npk" : "91878"
}

```

Respon Type : JSON

Respon Format :

Table MST\_USER\_PROMAG

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T
OUT_MESS	VARCHAR(2000)	Data Was Deleted!
<b>OUT_DATA</b>		

#### Lampiran 14.1 API *detail transaction resource needs*

API Desc : API ini digunakan untuk mengirimkan semua master data Trans Resource Need.

URL & Authorization : menggunakan ketentuan yang ada di SoftwareAG

Endpoint : /promag/transrn

Method : POST

Request Type : JSON

Request Format : -

Contoh Request : -

Respon Type : JSON

Respon Format :

Table TRANS\_RN

Field	Type	Desc
<b>Header</b>		
OUT_STAT	VARCHAR(1)	T
OUT_MESS	VARCHAR(2000)	Data
<b>OUT_DATA</b>		

ID_TRANS_RN	NUMBER	
ID_MM	NUMBER	
ID_TRANS	NUMBER	
QTY	NUMBER	
SUB_MM_NAME	VARCHAR(255)	

### Lampiran 15.1 DAX dashboard

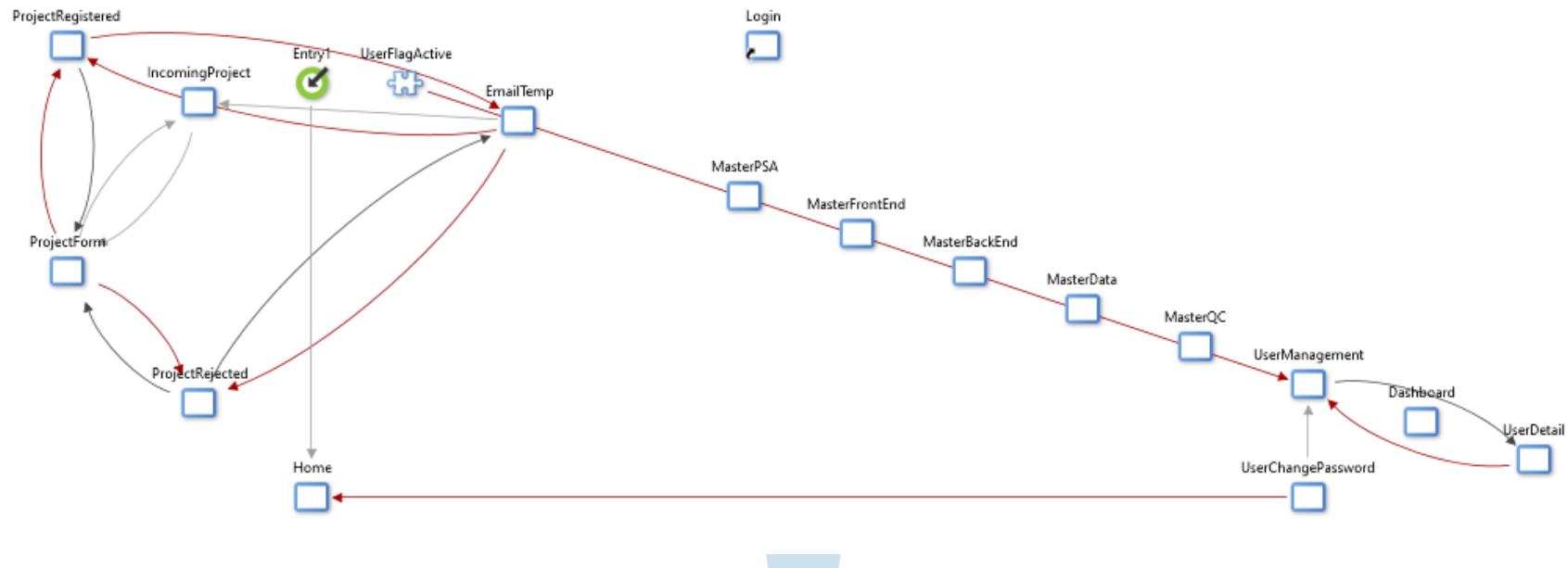
Measure	DAX
RNQC	<pre>RNQC = var QC = CALCULATE(SUMX(FactDetailRN,FactDetailRN[QTY]), FILTER(DimMM,DimMM[ID_RN]="5")) return if(ISBLANK(QC),0,QC)</pre>
RNFE	<pre>RNFE = var FE = CALCULATE(SUMX(FactDetailRN,FactDetailRN[QTY]), FILTER(DimMM,DimMM[ID_RN]="2")) return if(ISBLANK(FE),0,FE)</pre>
RNBE	<pre>RNBE = var BE = CALCULATE(SUMX(FactDetailRN,FactDetailRN[QTY]), FILTER(DimMM,DimMM[ID_RN]="3")) return if(ISBLANK(BE),0,BE)</pre>
RNSA	<pre>RNSA = var SA = CALCULATE(SUMX(FactDetailRN,FactDetailRN[QTY]), FILTER(DimMM,DimMM[ID_RN]="1")) return if(ISBLANK(SA),0,SA)</pre>
RNDA	<pre>RNDA = var DA = CALCULATE(SUMX(FactDetailRN,FactDetailRN[QTY]), FILTER(DimMM,DimMM[ID_RN]="4")) return if(ISBLANK(DA),0,DA)</pre>
TotalRegistered	<pre>TotalRegistered = var registered= CALCULATE(COUNTROWS(FactOrder),</pre>

	<pre>FactOrder[STATUS] = "Registered") return if(ISBLANK(registered),0,registered)</pre>
<b>TotalRejected</b>	<pre>Total Rejected = var rejected= CALCULATE(COUNTROWS(FactOrder), FactOrder[STATUS] = "Rejected") return if(ISBLANK(rejected),0,rejected)</pre>
<b>TotalProject</b>	<pre>TotalProject = var project=COUNTROWS(FactOrder) return if(ISBLANK(project),0,project)</pre>
<b>SectionBO</b>	<pre>SectionBO = CALCULATE(COUNTROWS(FactOrder), FactOrder[SECTIONS] = "BO")</pre>
<b>SectionEIS</b>	<pre>SectionEIS = CALCULATE(COUNTROWS(FactOrder), FactOrder[SECTIONS] = "EIS")</pre>
<b>SectionLM</b>	<pre>SectionLM = CALCULATE(COUNTROWS(FactOrder), FactOrder[SECTIONS] = "LM")</pre>
<b>SectionLO</b>	<pre>SectionLO = CALCULATE(COUNTROWS(FactOrder), FactOrder[SECTIONS] = "LO")</pre>
<b>SectionPE</b>	<pre>SectionPE = CALCULATE(COUNTROWS(FactOrder), FactOrder[SECTIONS] = "PE")</pre>
<b>SectionPI</b>	<pre>SectionPI = CALCULATE(COUNTROWS(FactOrder), FactOrder[SECTIONS] = "PI")</pre>
<b>SectionPP</b>	<pre>SectionPP = CALCULATE(COUNTROWS(FactOrder), FactOrder[SECTIONS] = "PP")</pre>
<b>SizeL</b>	<pre>SizeL = CALCULATE(COUNTROWS(FactOrder), FactOrder[PRJ_SIZE] = "L")</pre>
<b>SizeM</b>	<pre>SizeM = CALCULATE(COUNTROWS(FactOrder), FactOrder[PRJ_SIZE] = "M")</pre>
<b>SizeS</b>	<pre>SizeS = CALCULATE(COUNTROWS(FactOrder), FactOrder[PRJ_SIZE] = "S")</pre>
<b>SizeXL</b>	<pre>SizeXL = CALCULATE(COUNTROWS(FactOrder), FactOrder[PRJ_SIZE] = "XL")</pre>
<b>TotalUnipaas</b>	<pre>TotalUnipaas = var TU = CALCULATE(SUMX(FactDetailRN, FactDetailRN[QTY]), FactDetail</pre>

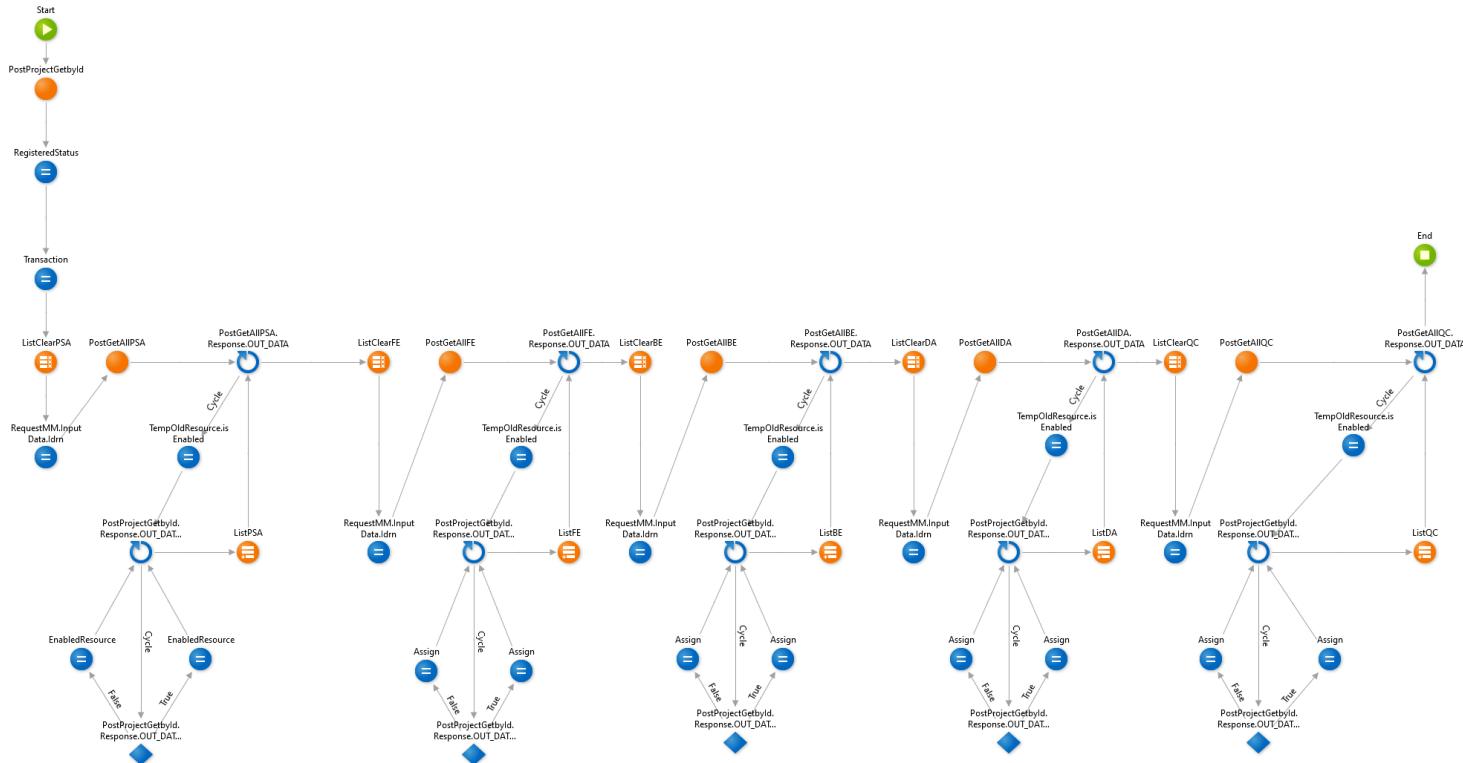
	RN[ID_MM]=8) return if(ISBLANK(TU),0,TU)
TotalPBI	TotalPBI = var TPB = CALCULATE(SUMX(FactDetailRN,FactDetailRN[QTY]),FactDetail RN[ID_MM]=7) return if(ISBLANK(TPB),0,TPB)
TotalOutsystem	TotalOutsystem = var TOS = CALCULATE(SUMX(FactDetailRN,FactDetailRN[QTY]),FactDetail RN[ID_MM]=3) return if(ISBLANK(TOS),0,TOS)
TotalLaravel	TotalLaravel = var TL = CALCULATE(SUMX(FactDetailRN,FactDetailRN[QTY]),FactDetail RN[ID_MM]=8) return if(ISBLANK(TL),0,TL)
TotalIonic	TotalIonic = var TI = CALCULATE(SUMX(FactDetailRN,FactDetailRN[QTY]),FactDetail RN[ID_MM]=1) return if(ISBLANK(TI),0,TI)
TotalWebmethod	TotalWebmethod = var TW = CALCULATE(SUMX(FactDetailRN,FactDetailRN[QTY]),FactDetail RN[ID_MM]=6) return if(ISBLANK(TW),0,TW)
TotalPLSQL	TotalPLSQL = var TP = CALCULATE(SUMX(FactDetailRN,FactDetailRN[QTY]),FactDetail RN[ID_MM]=5) return if(ISBLANK(TP),0,TP)
TotalAxway	TotalAxway = var TA = CALCULATE(SUMX(FactDetailRN,FactDetailRN[QTY]),FactDetail RN[ID_MM]=4) return if(ISBLANK(TA),0,TA)



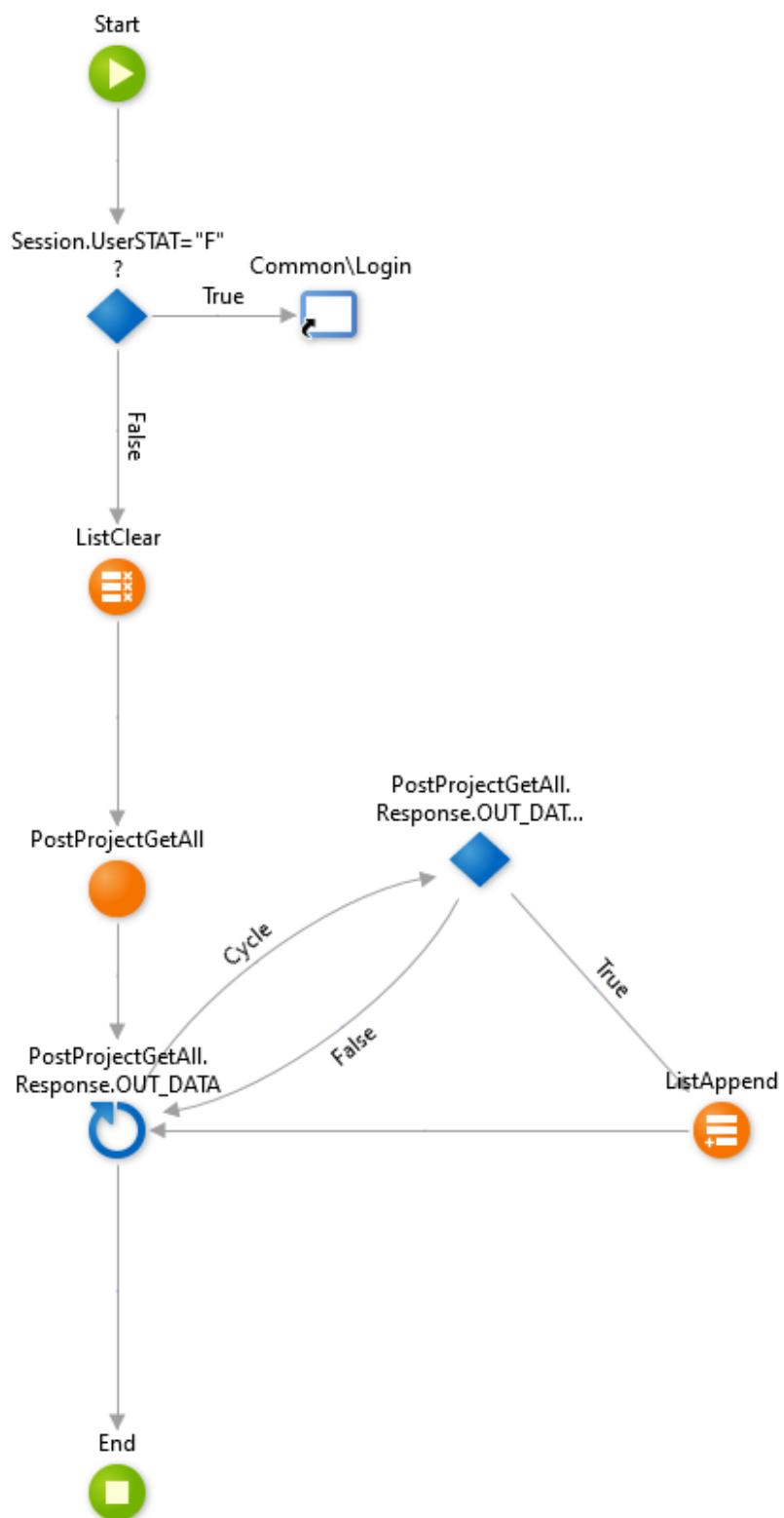
## Lampiran 16.1 Main Flow Technocenter form order Monitoring



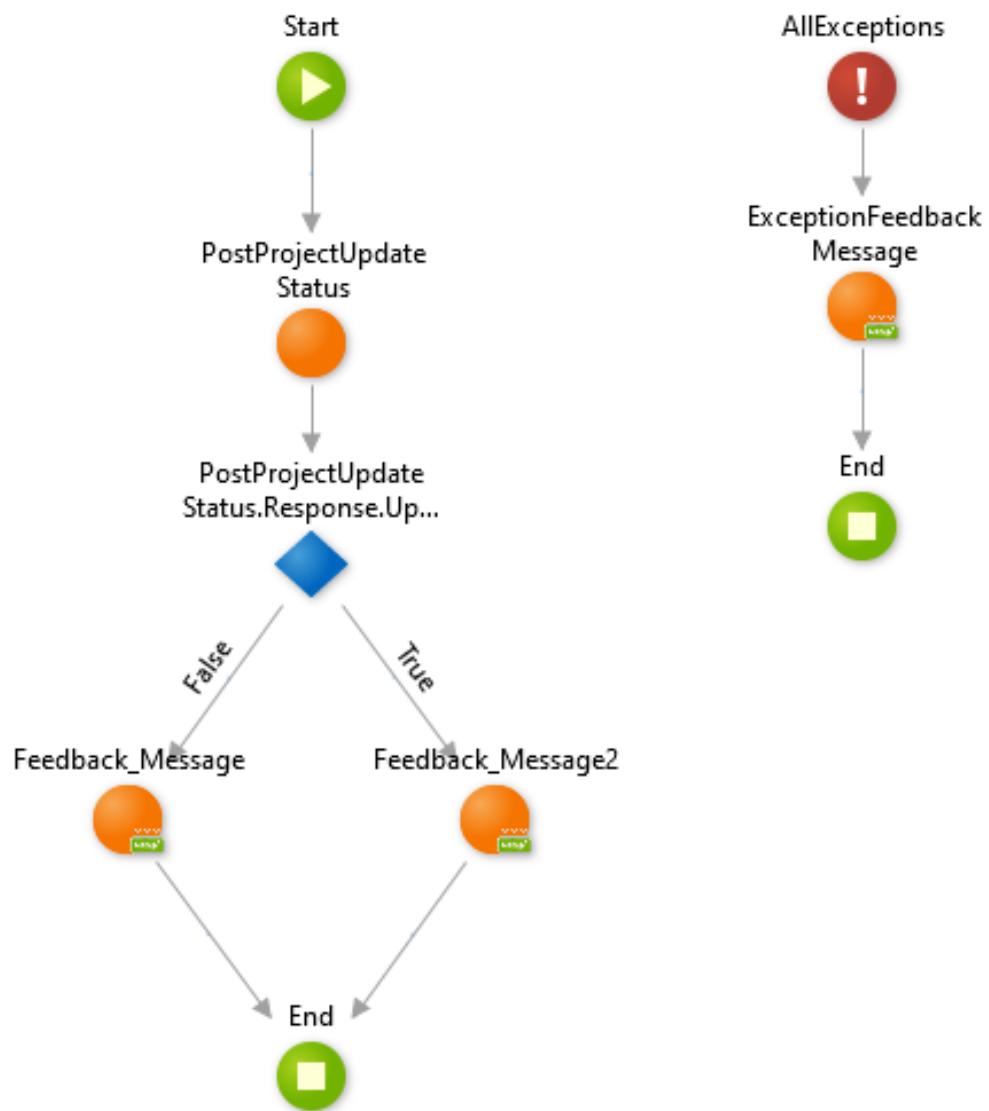
## Lampiran 17.1 UI Flow create new project



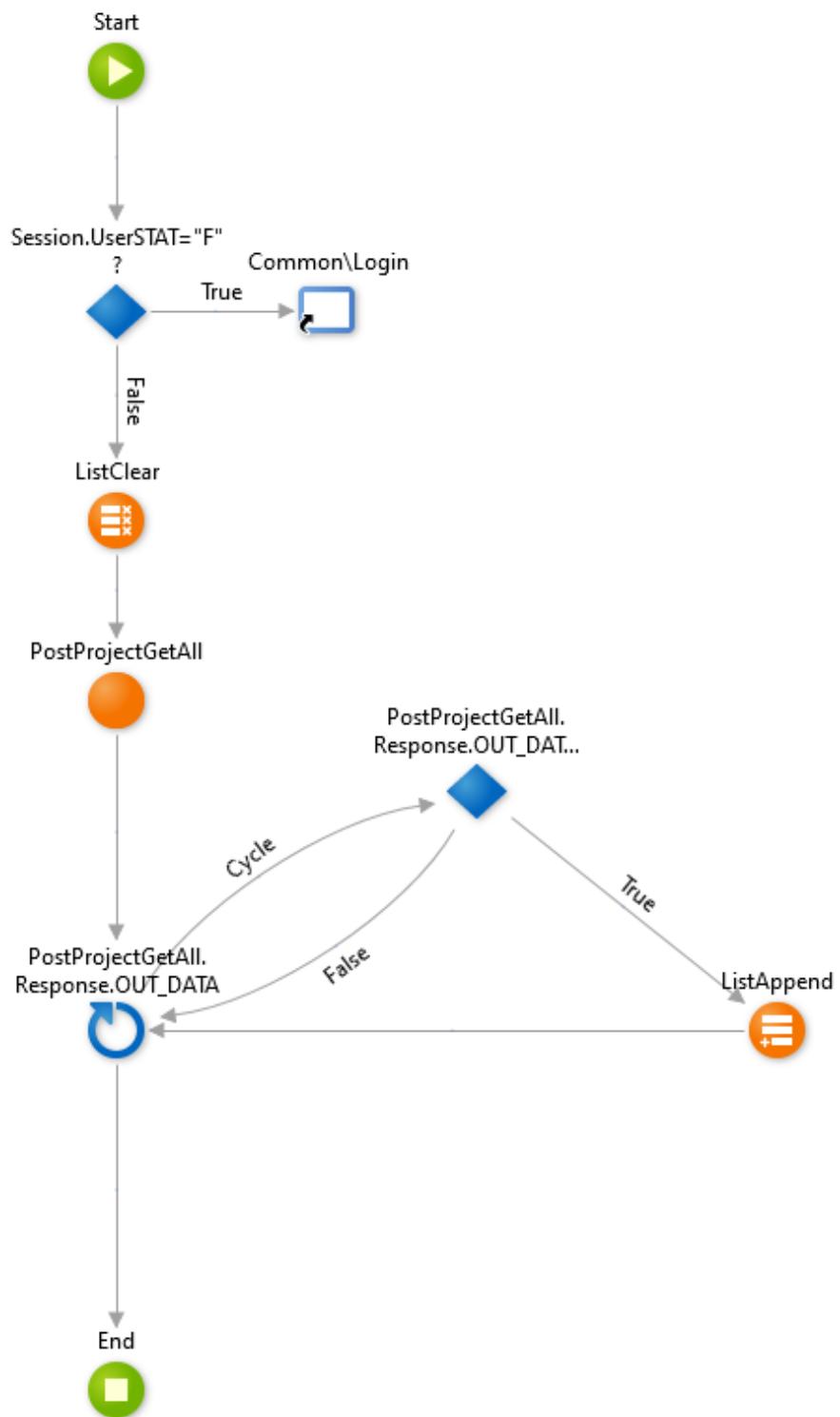
### Lampiran 18.1 UI flow list project incoming



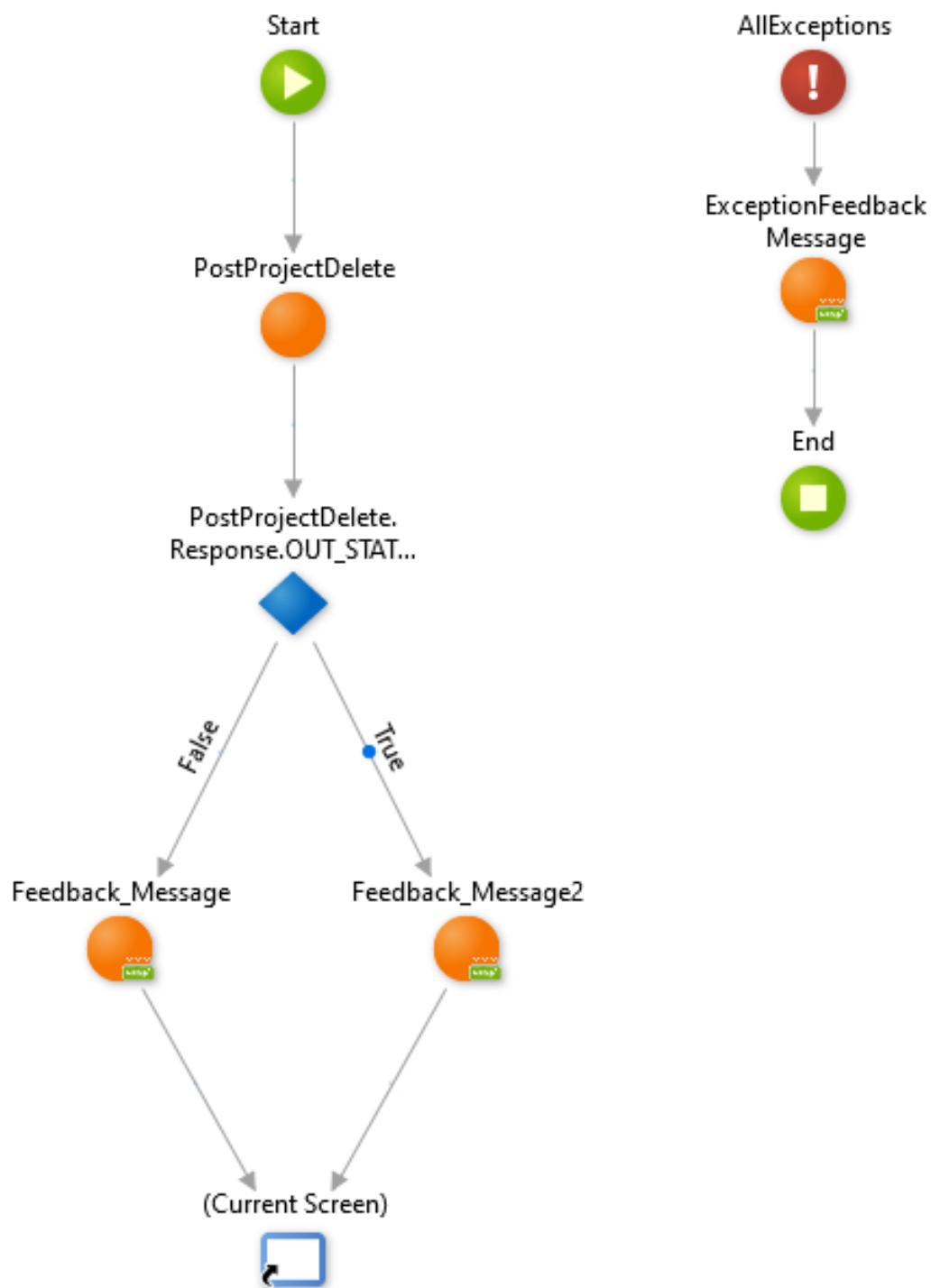
Lampiran 19.1 UI flow change status incoming project



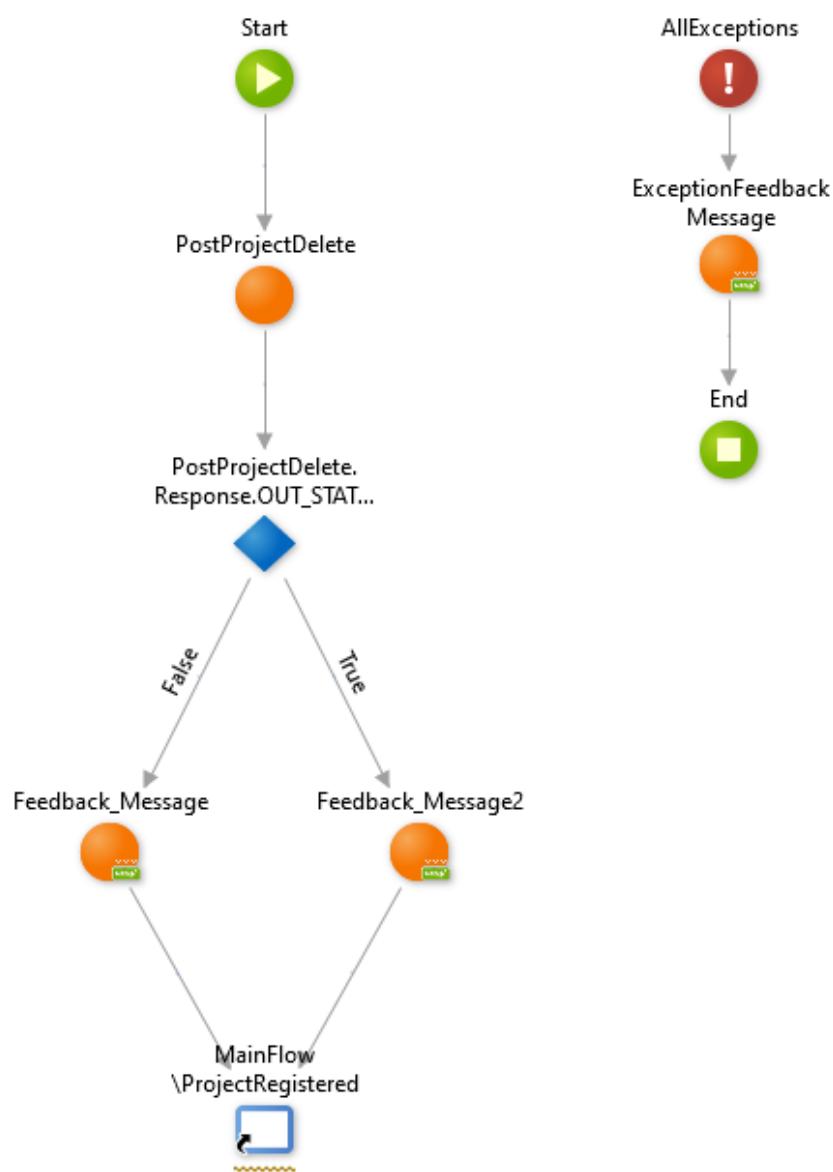
**Lampiran 20.1 UI flow list registered project**



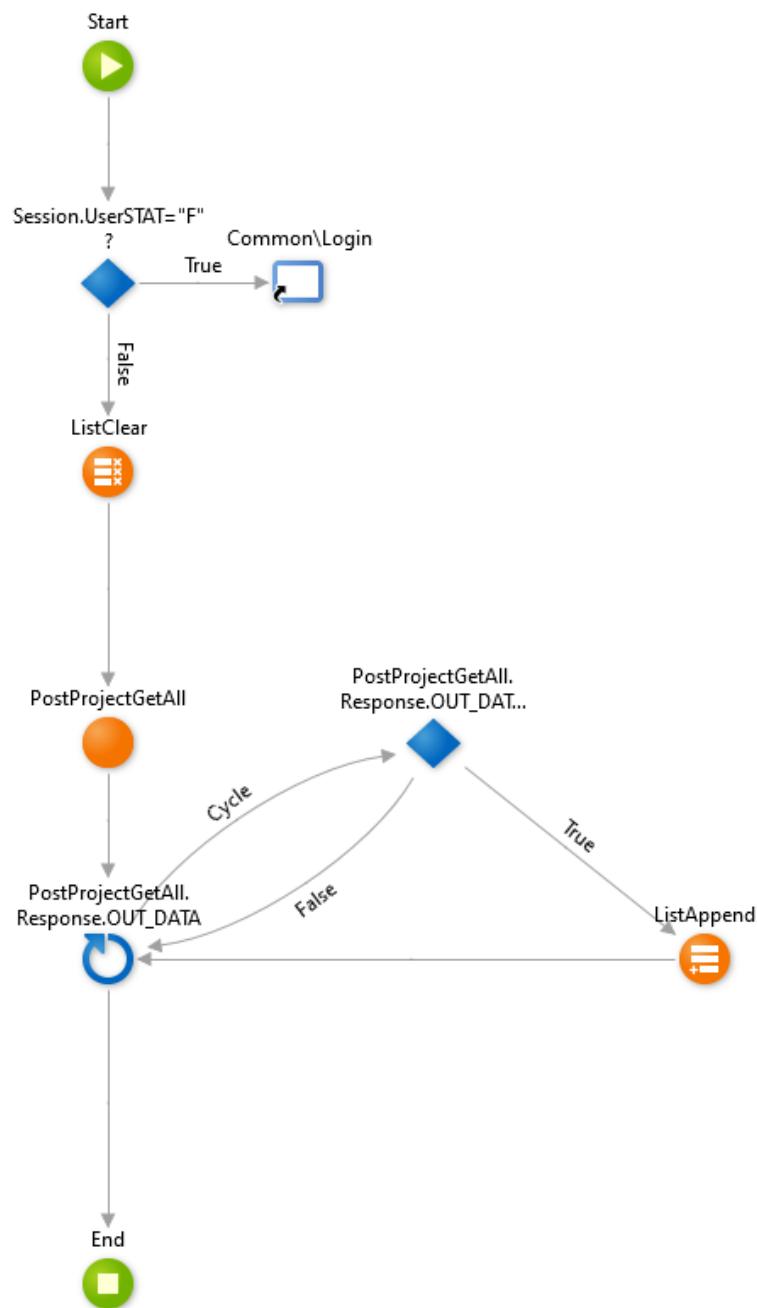
**Lampiran 21.1 UI flow delete registered project**



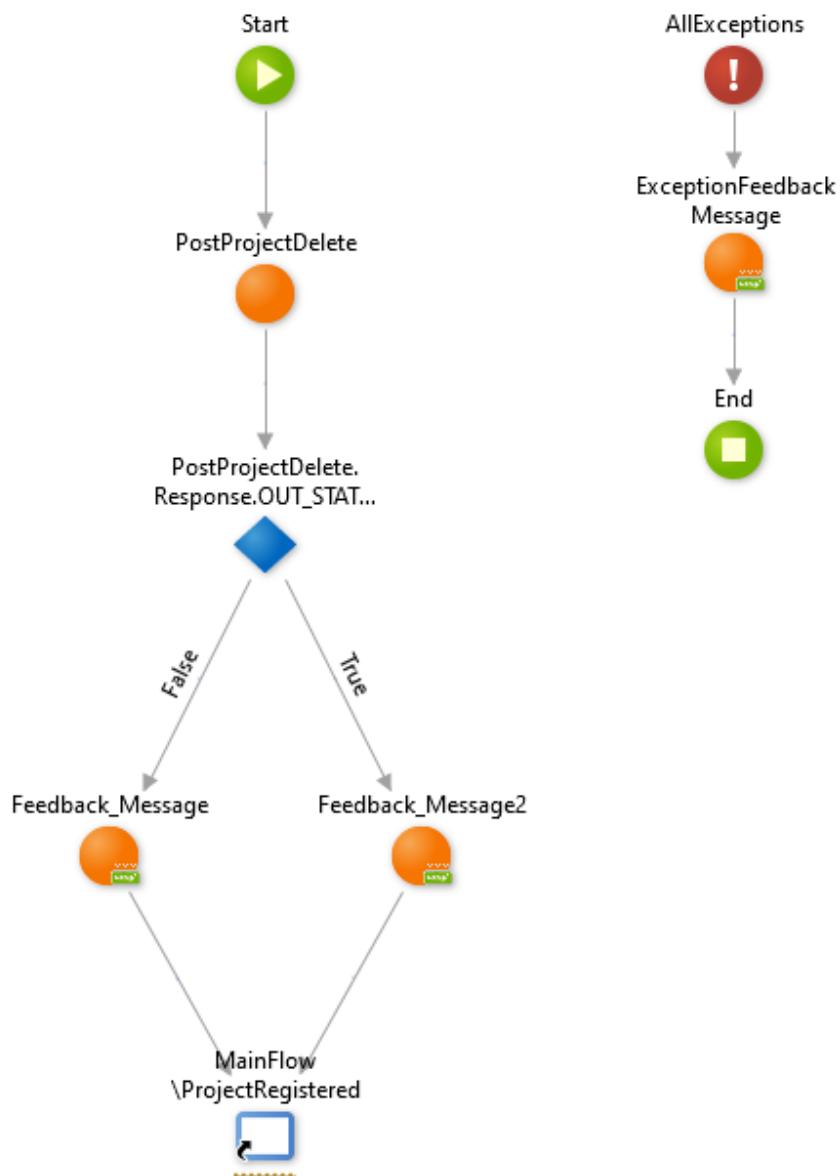
**Lampiran 22.1 UI flow download registered project**



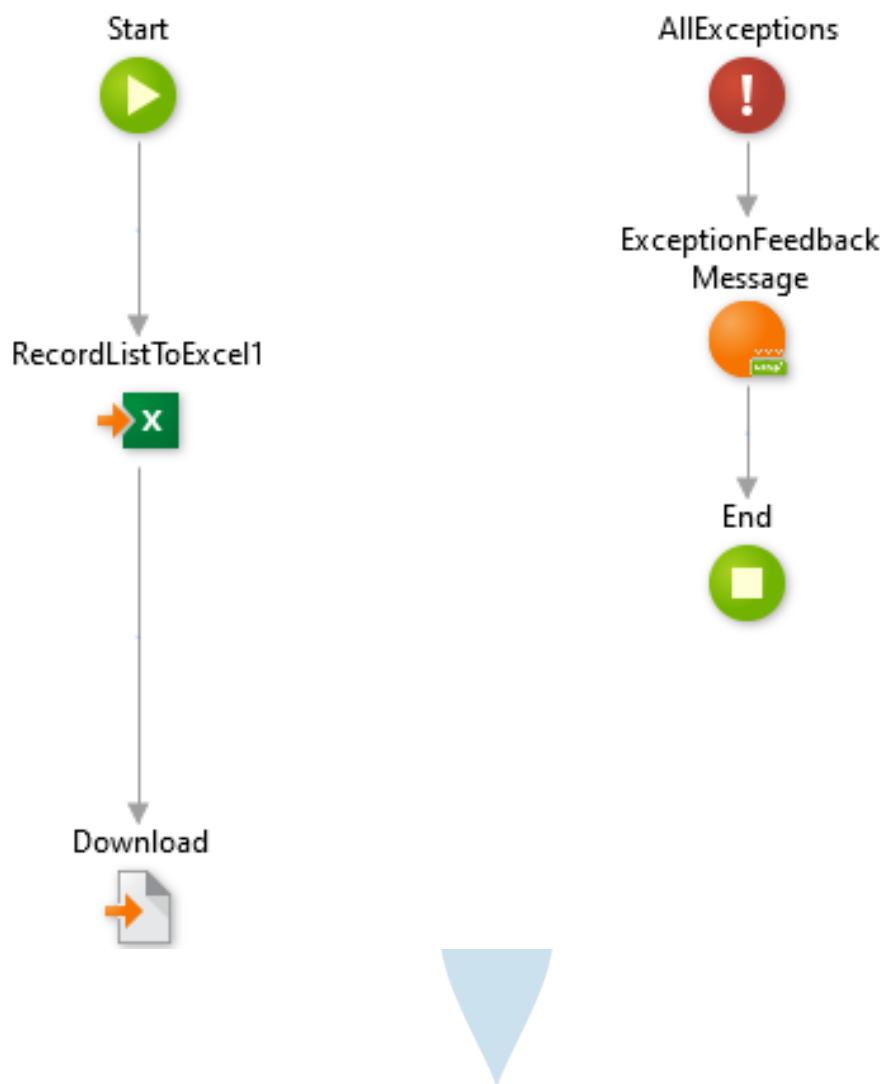
**Lampiran 23.1 UI flow list rejected project**



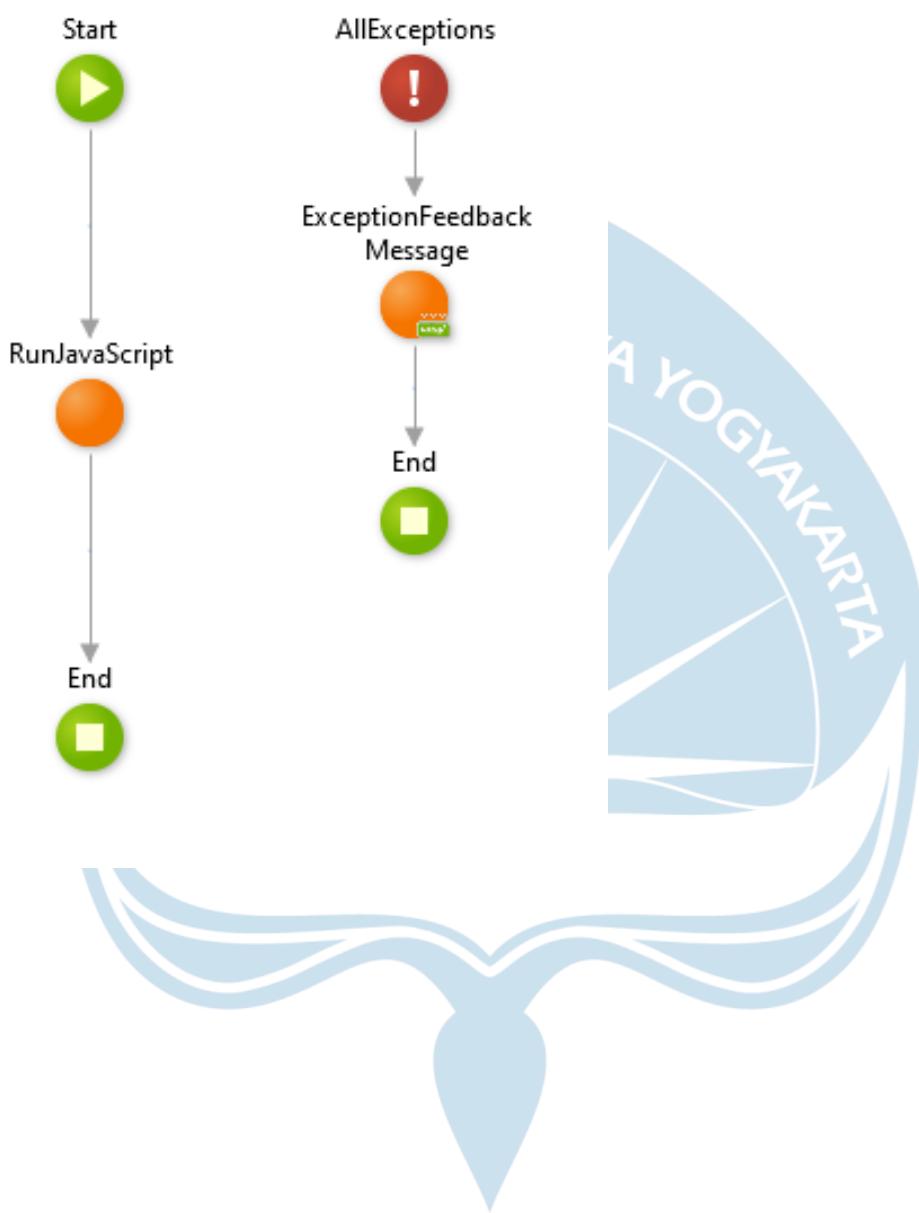
Lampiran 24.1 UI flow delete rejected project



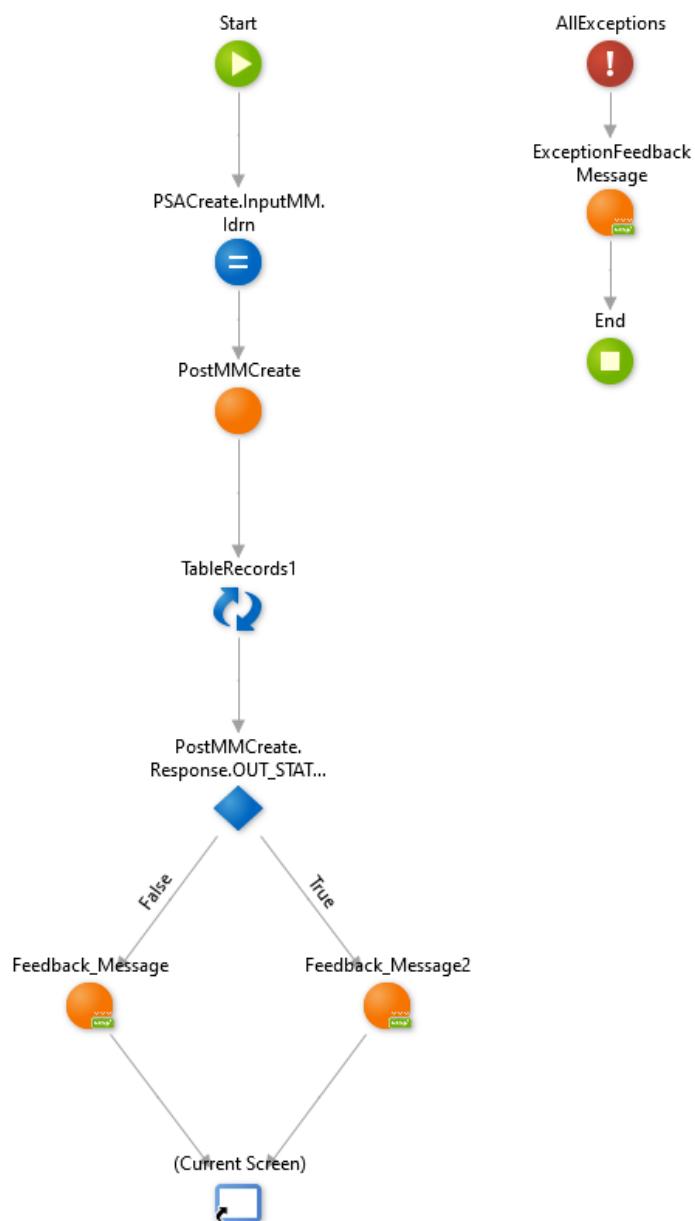
**Lampiran 25.1 UI flow download rejected project**



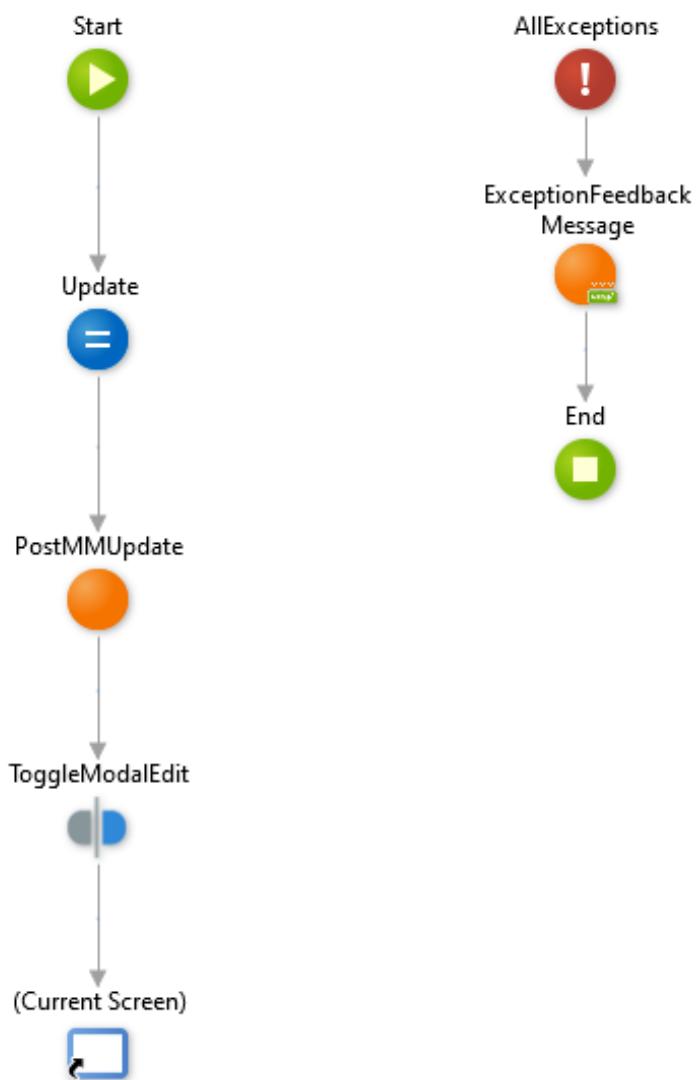
**Lampiran 26.1 UI flow copy template text email**



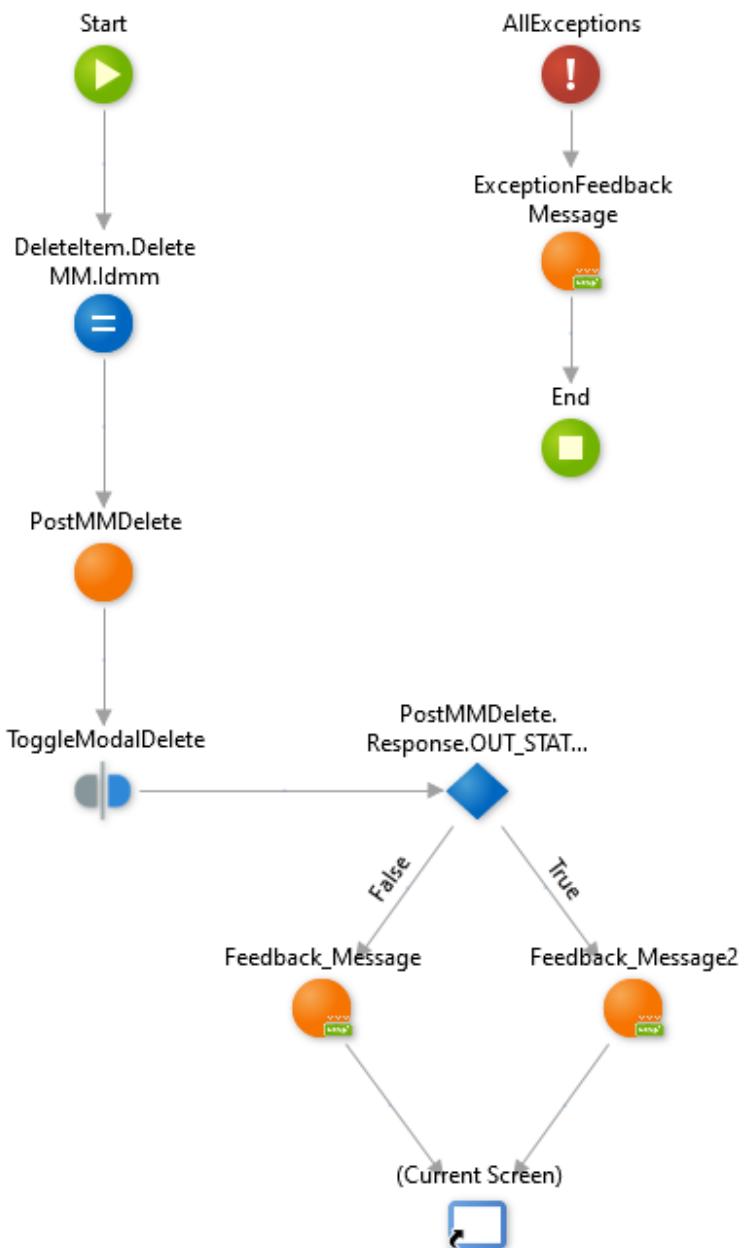
## Lampiran 27.1 UI flow project system analyst (create)



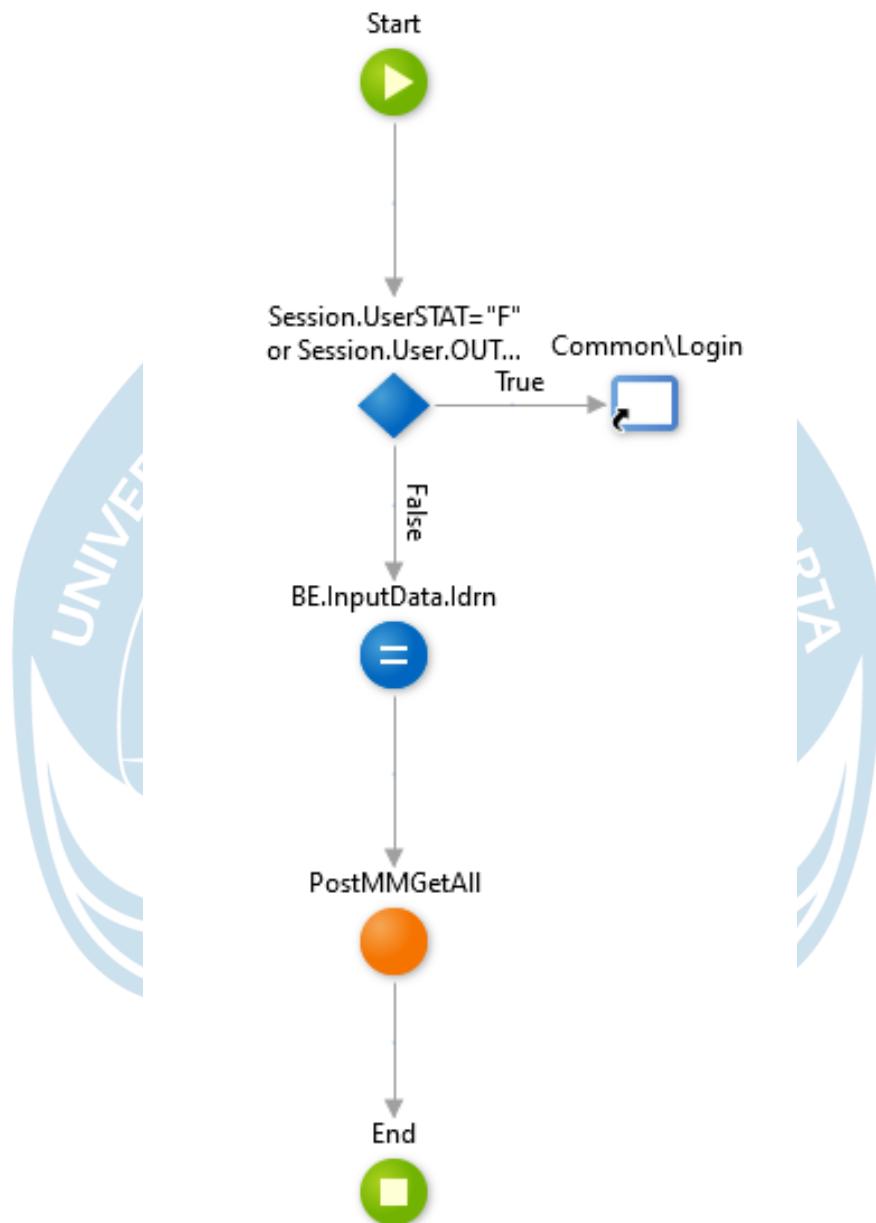
**Lampiran 28.1 UI flow project system analyst (update)**



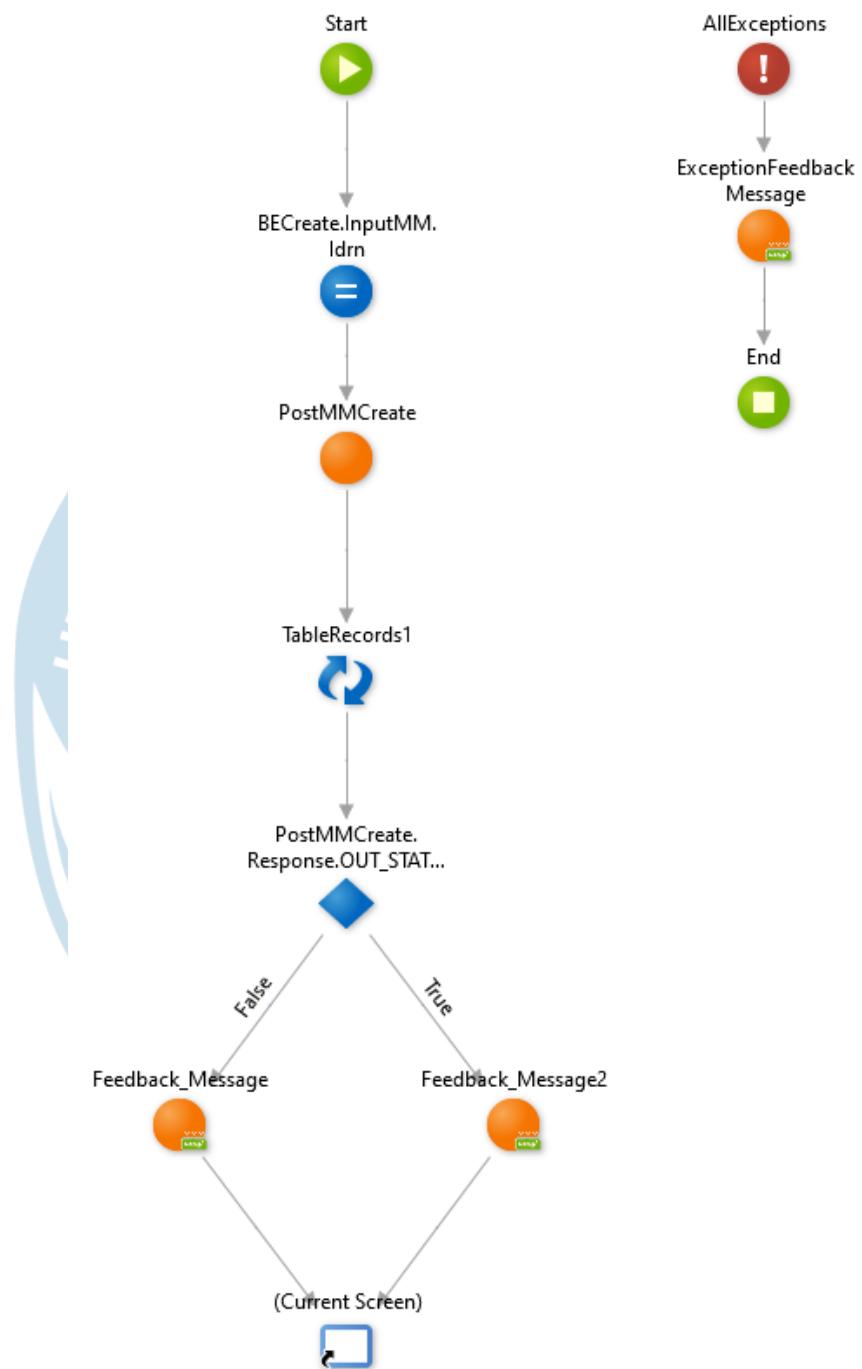
**Lampiran 29.1 UI flow project system analyst (delete)**



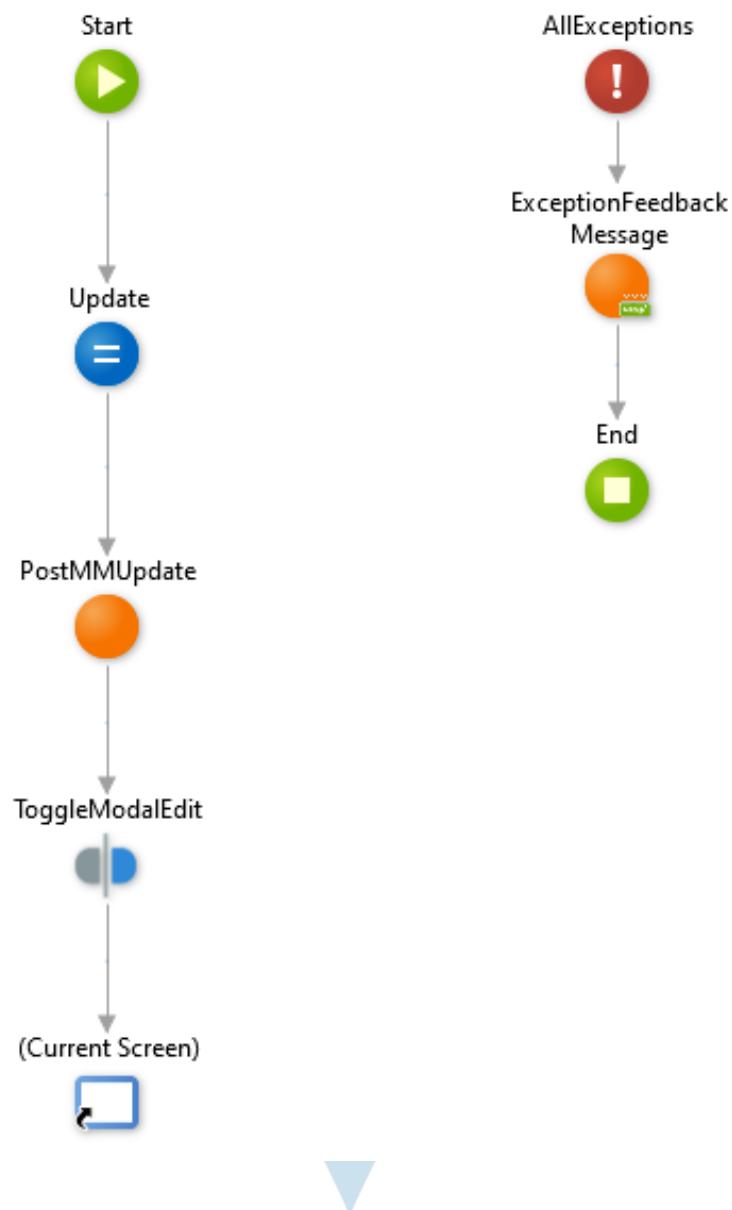
Lampiran 30. 1 UI flow *backend (list)*



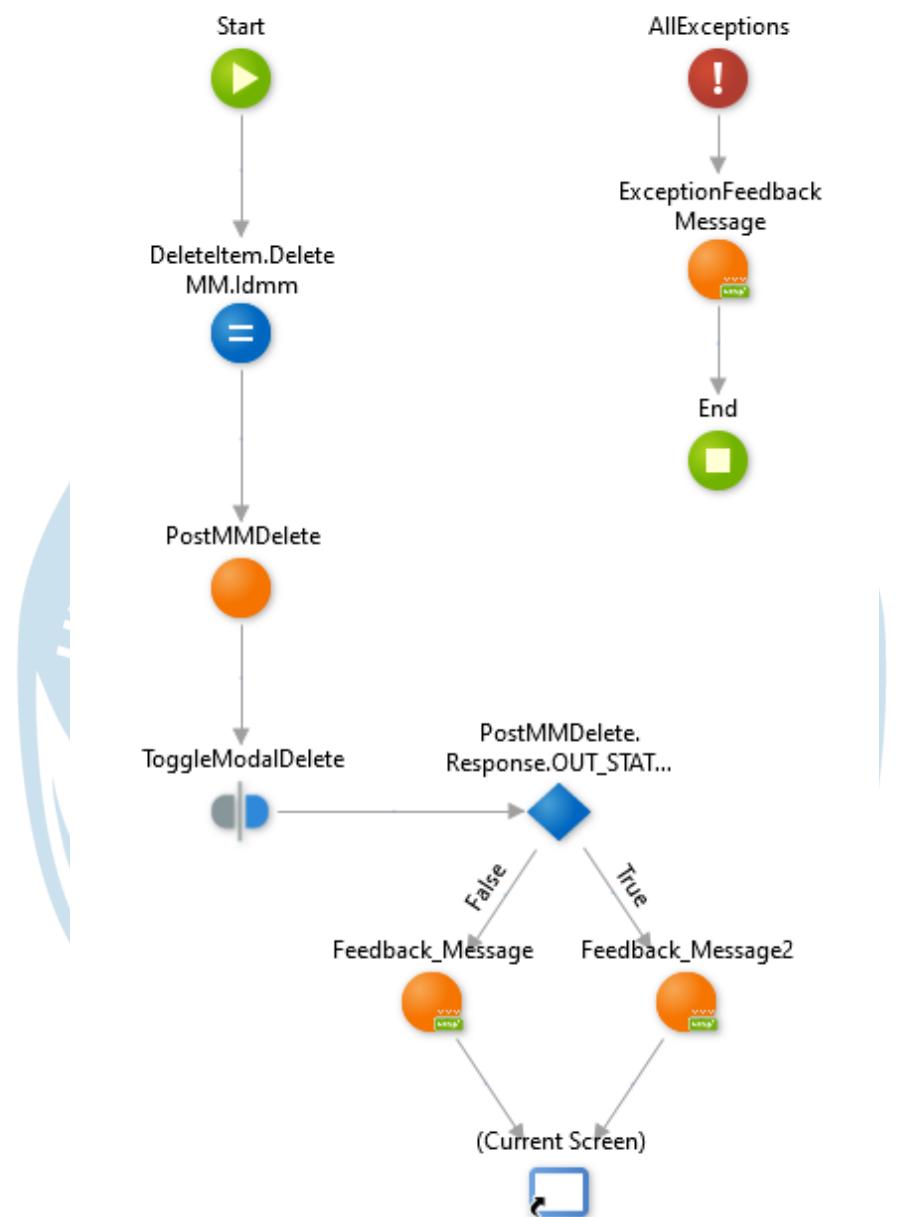
### Lampiran 31. 1 UI flow backend (create)



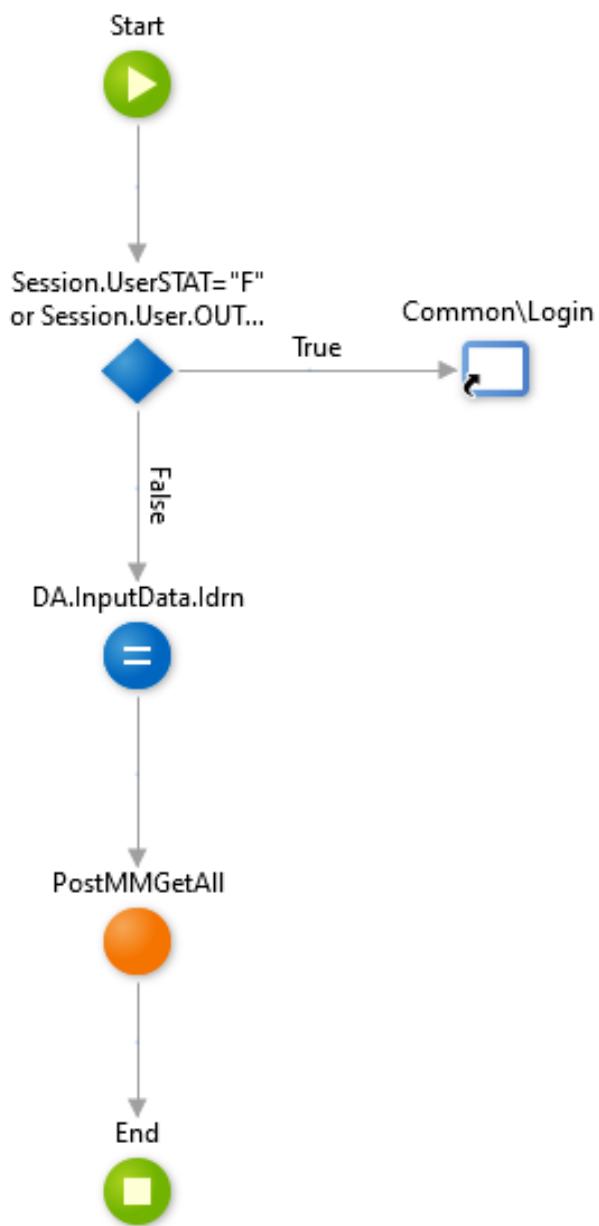
### Lampiran 32.1 UI flow *backend (update)*



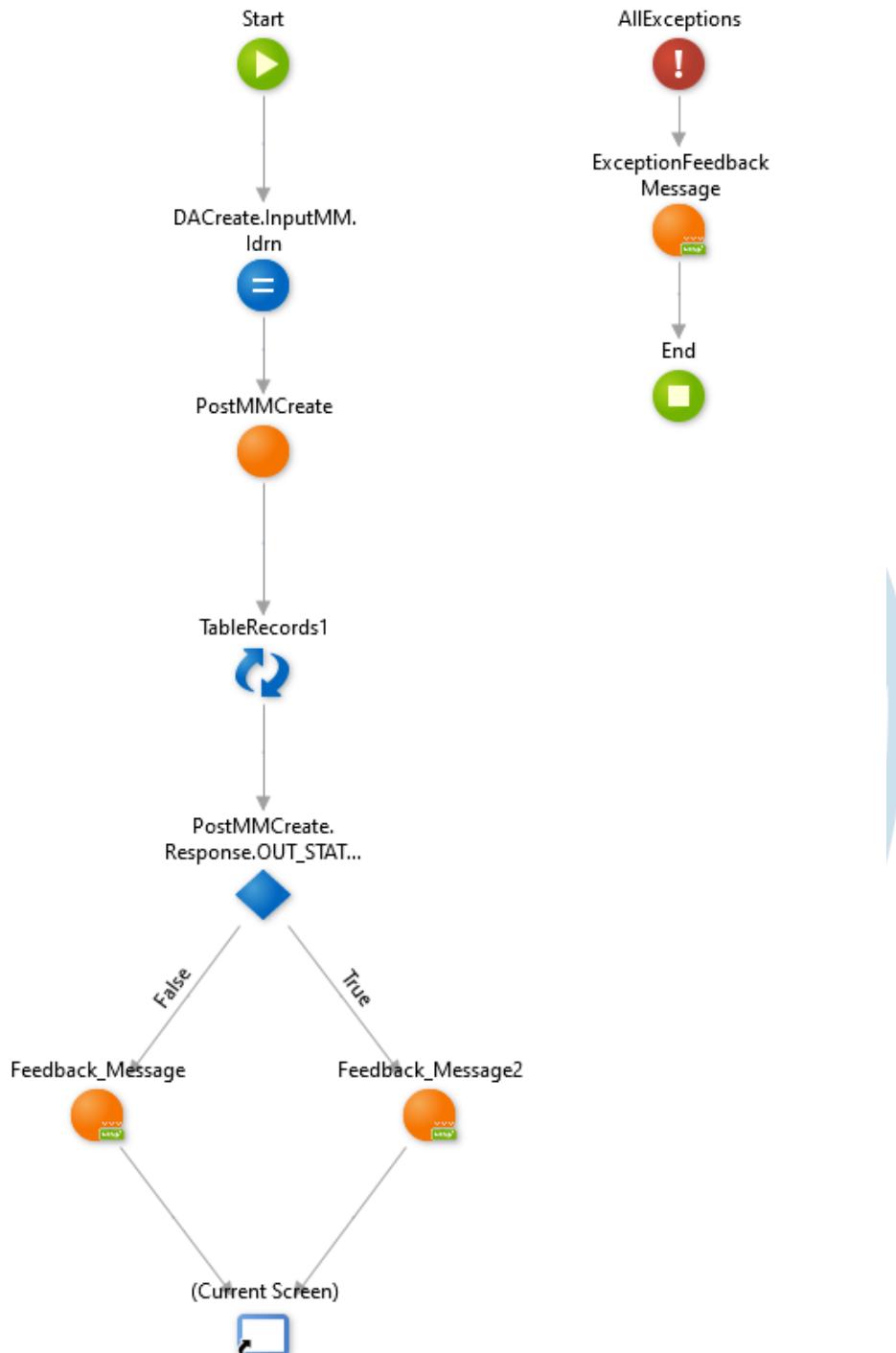
### Lampiran 33.1 UI flow backend (delete)



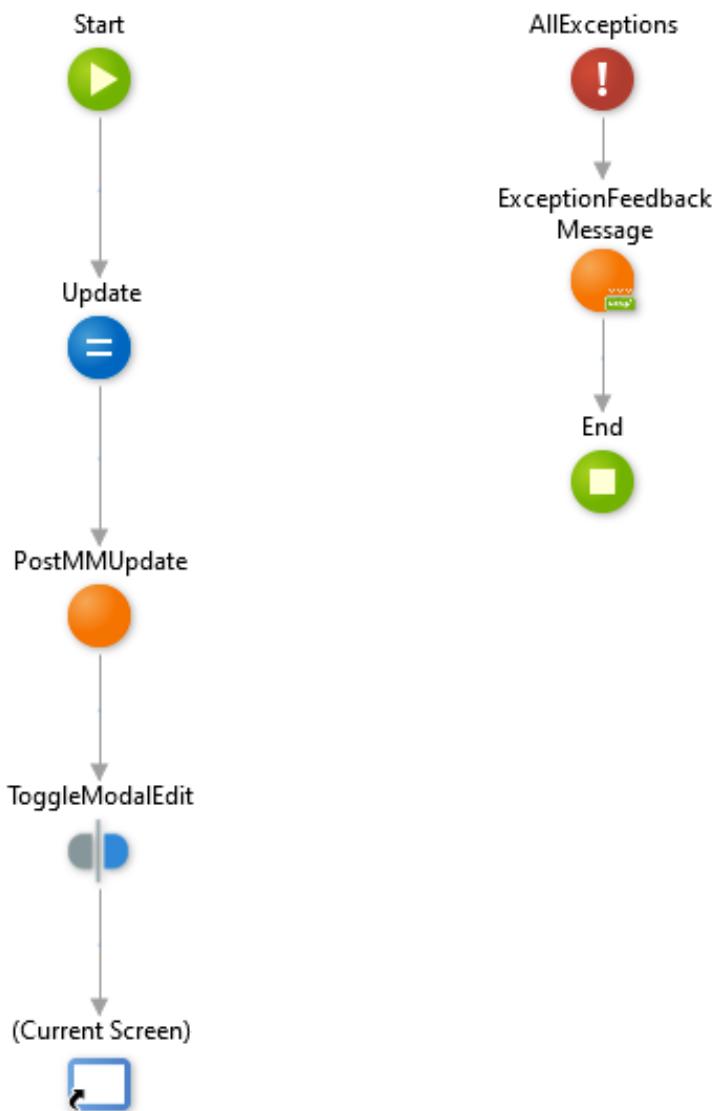
**Lampiran 34.1 UI flow data & automation (list)**



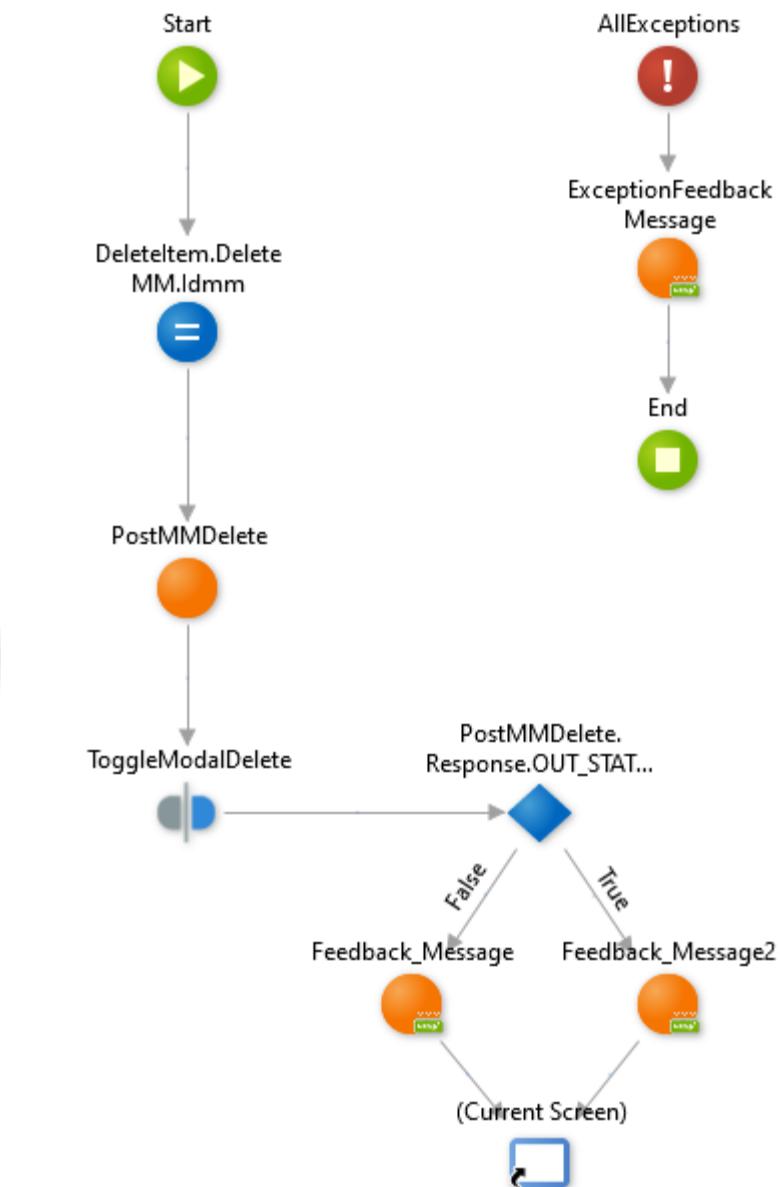
### Lampiran 35. 1 UI flow data & automation (create)



### Lampiran 36.1 UI flow data & automation (update)



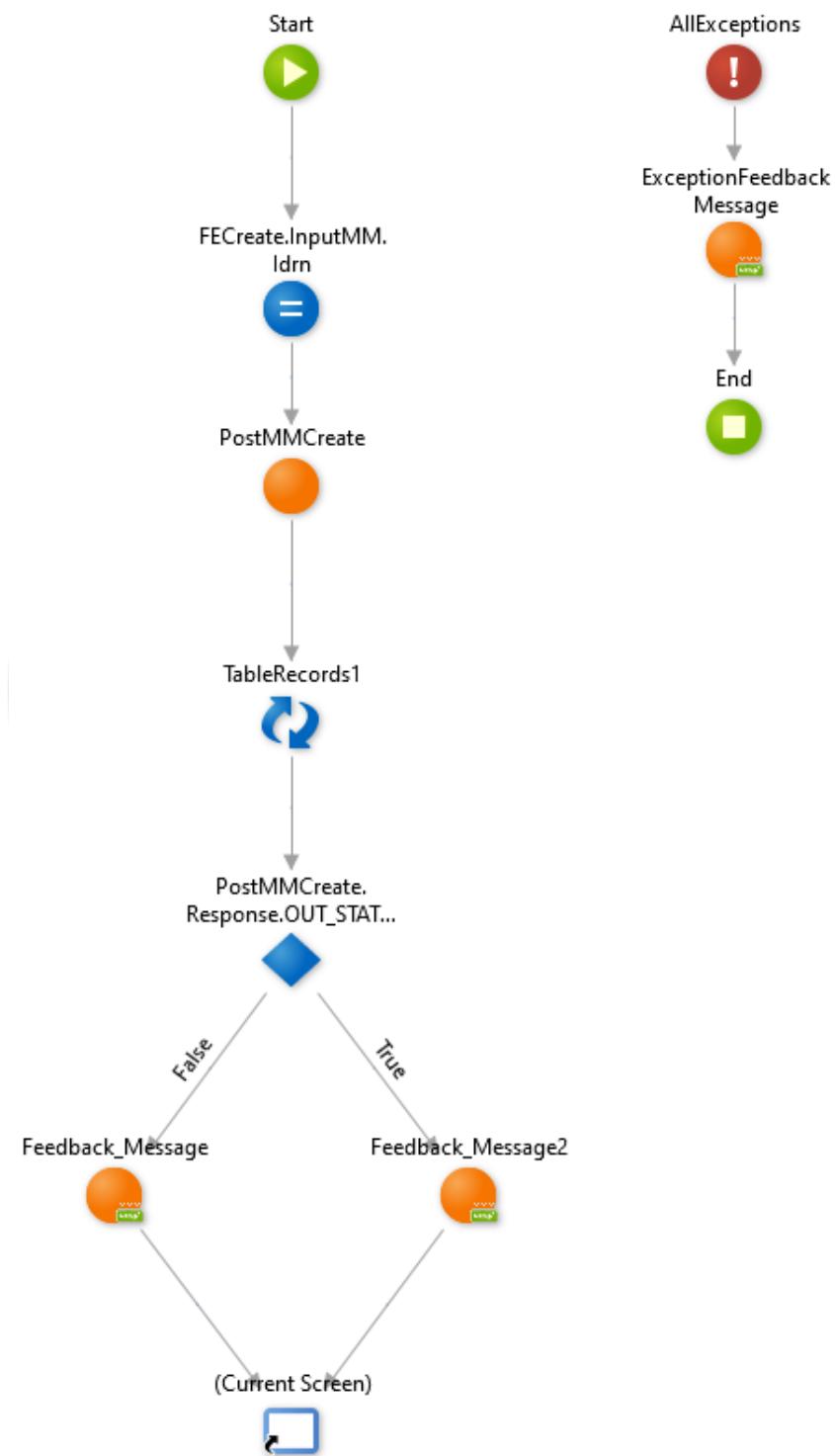
**Lampiran 37.1 UI flow data & automation (delete)**



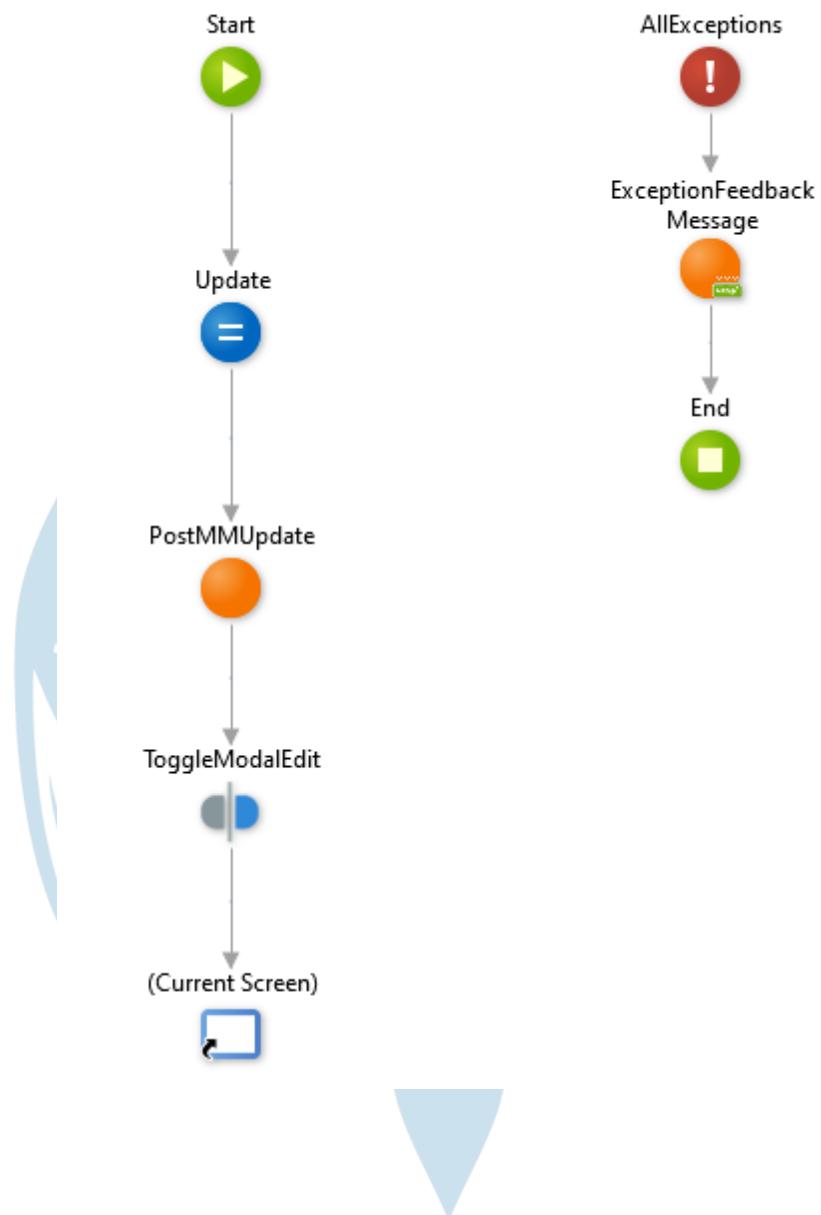
**Lampiran 38.1 UI flow *frontend (list)***



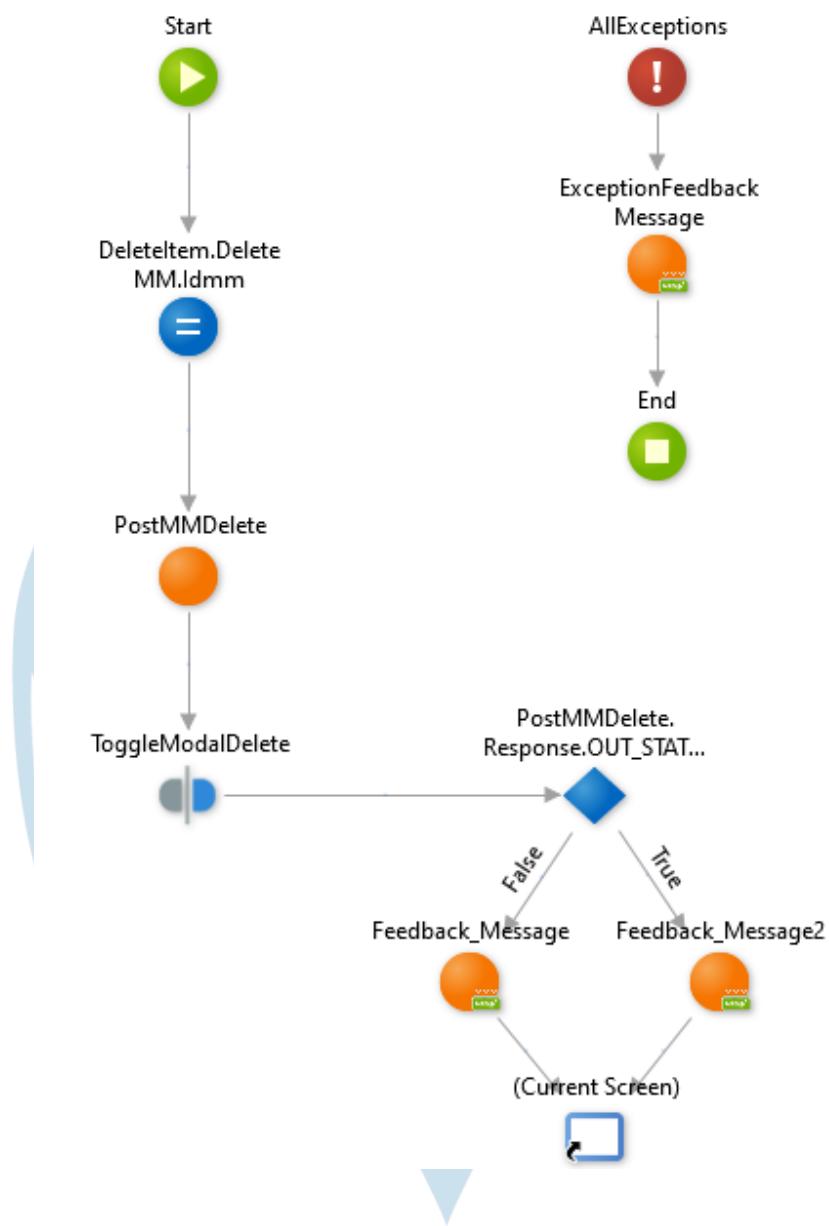
### Lampiran 39.1 UI flow *frontend (create)*



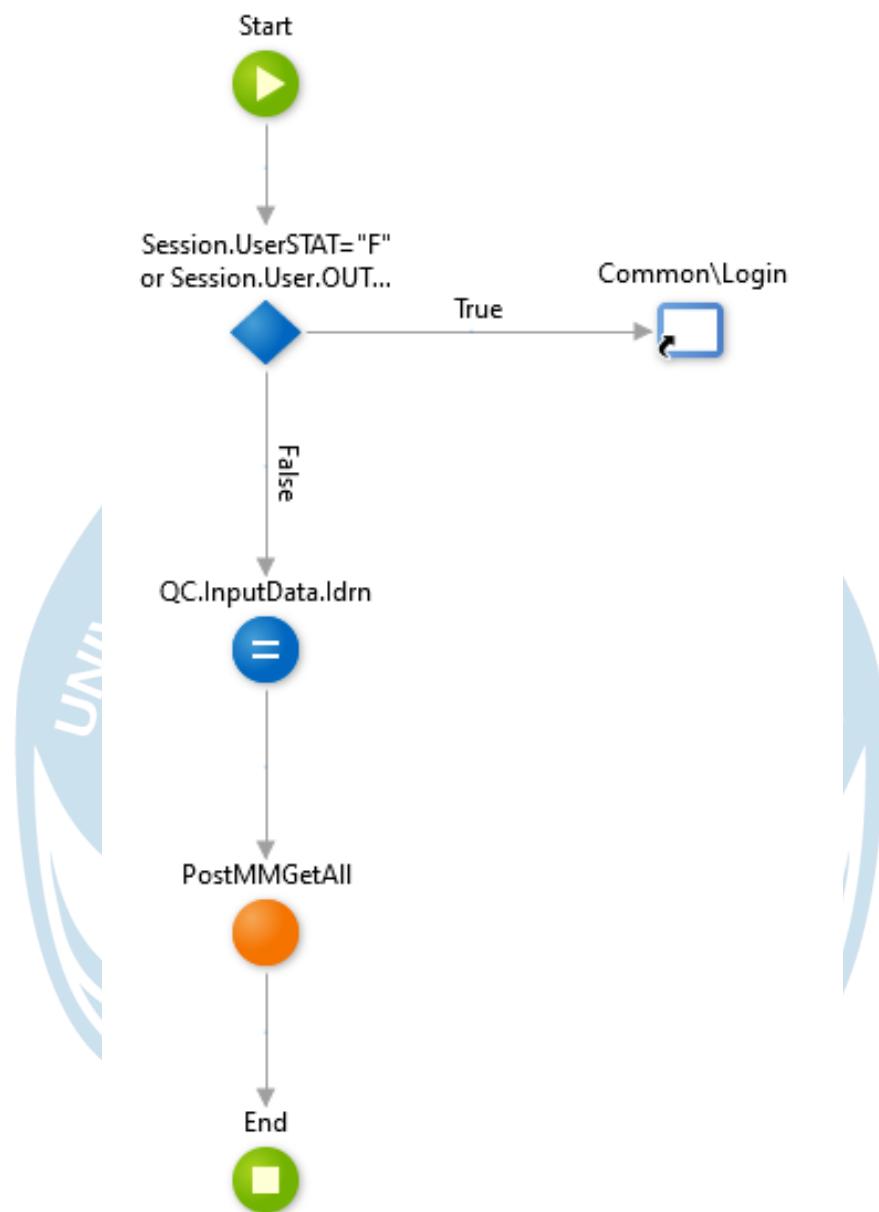
## Lampiran 40.1 UI flow *frontend (update)*



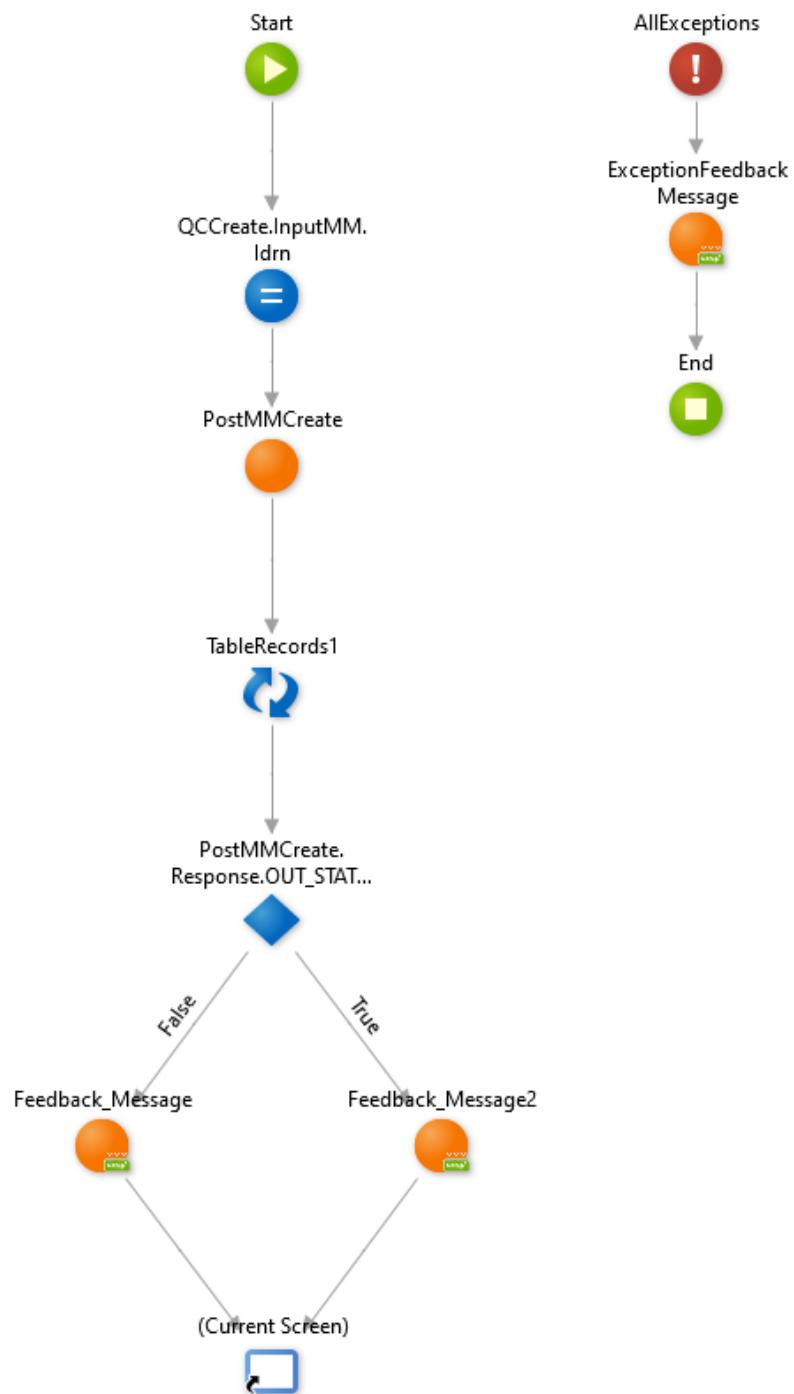
### Lampiran 41.1 UI flow frontend (delete)



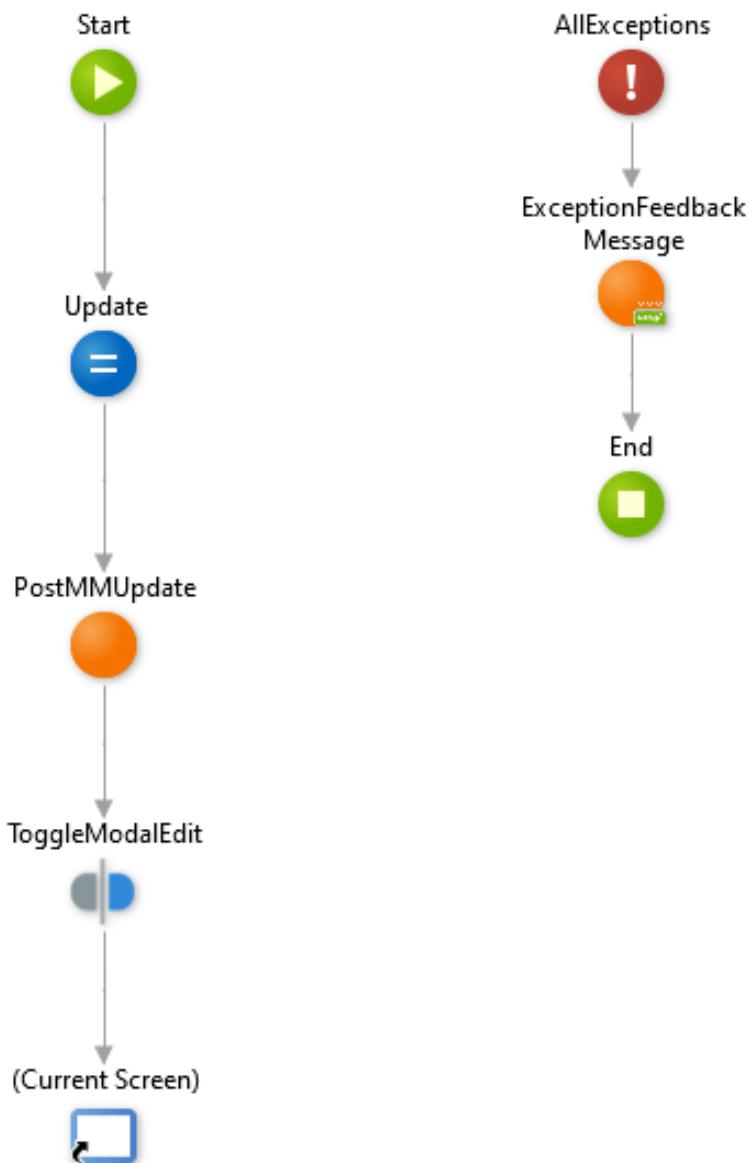
**Lampiran 42.1 UI flow *quality control (list)***



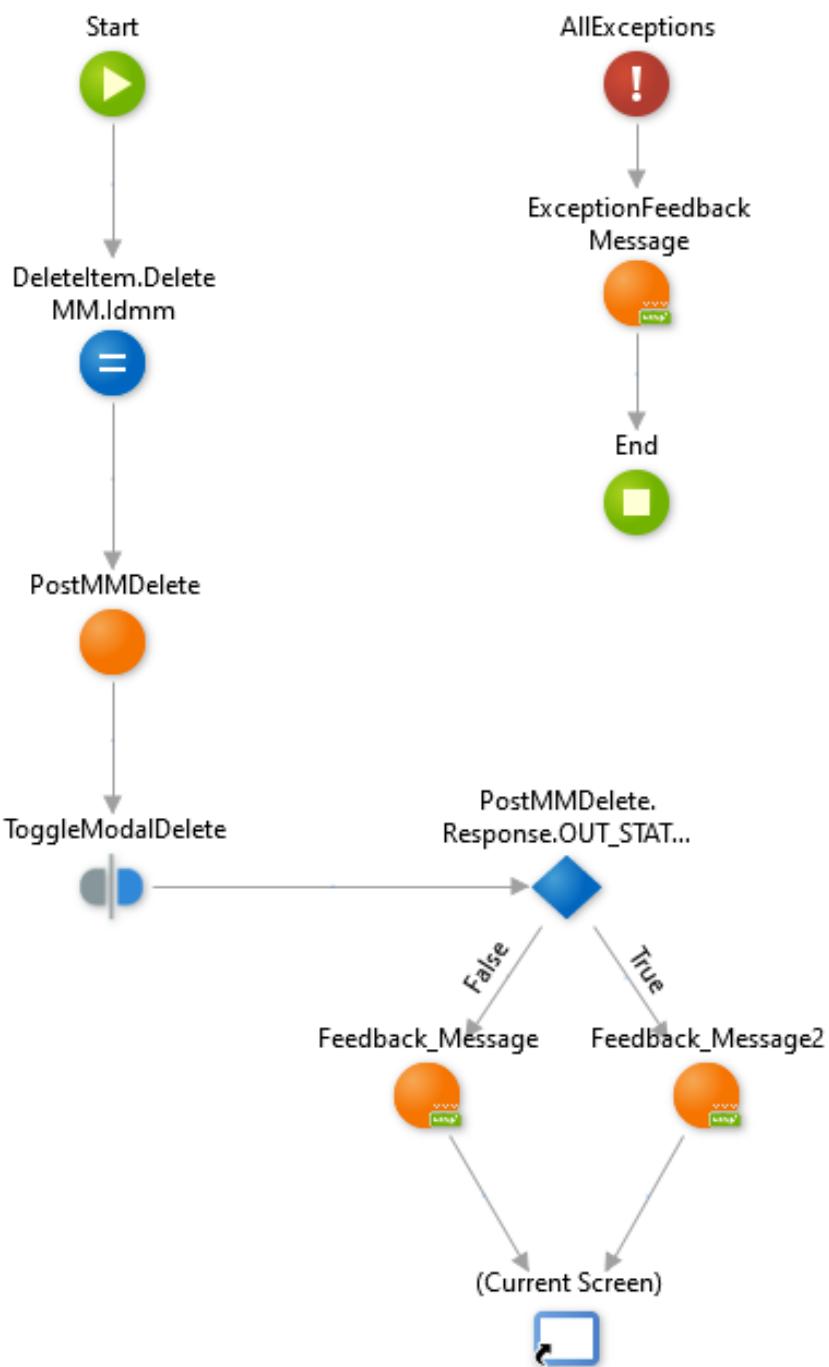
### Lampiran 43.1 UI flow quality control (create)



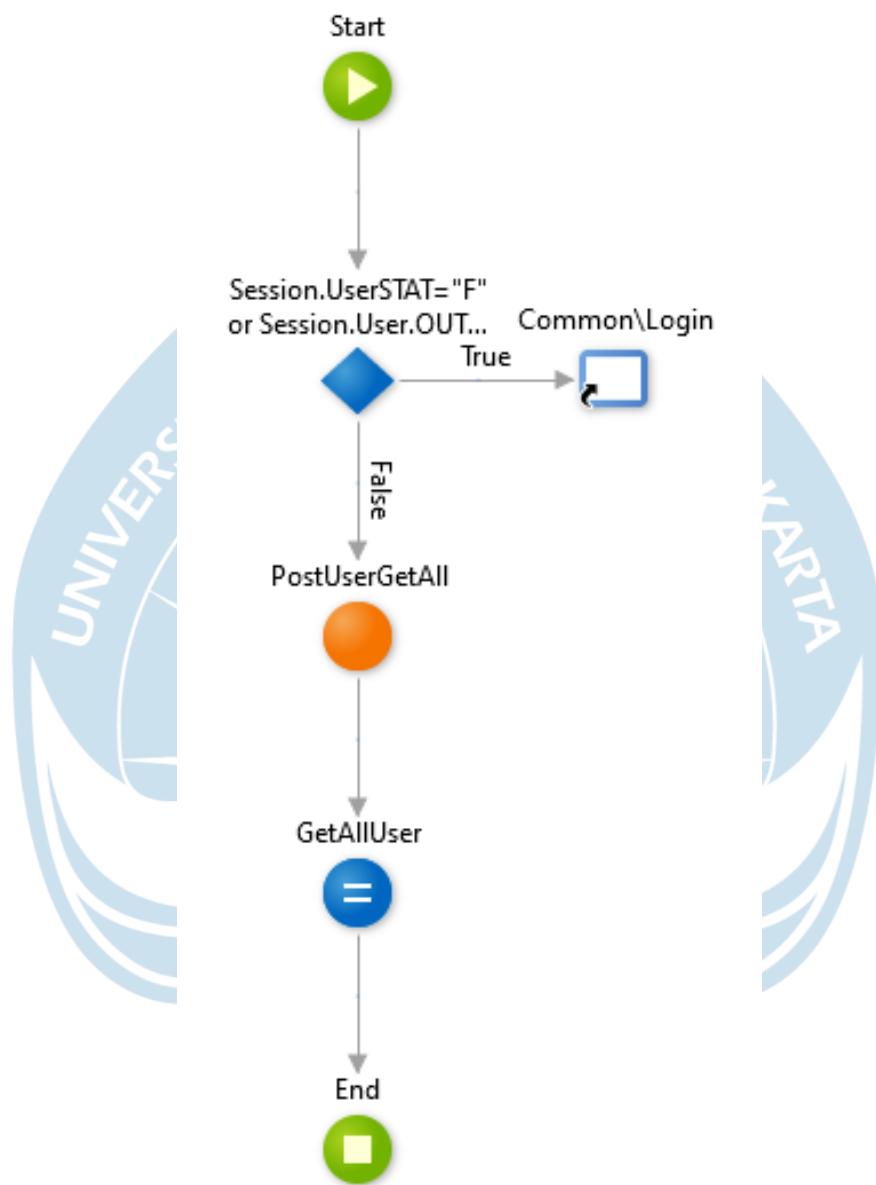
**Lampiran 44.1 UI flow quality control (update)**



**Lampiran 45.1 UI flow quality control (delete)**



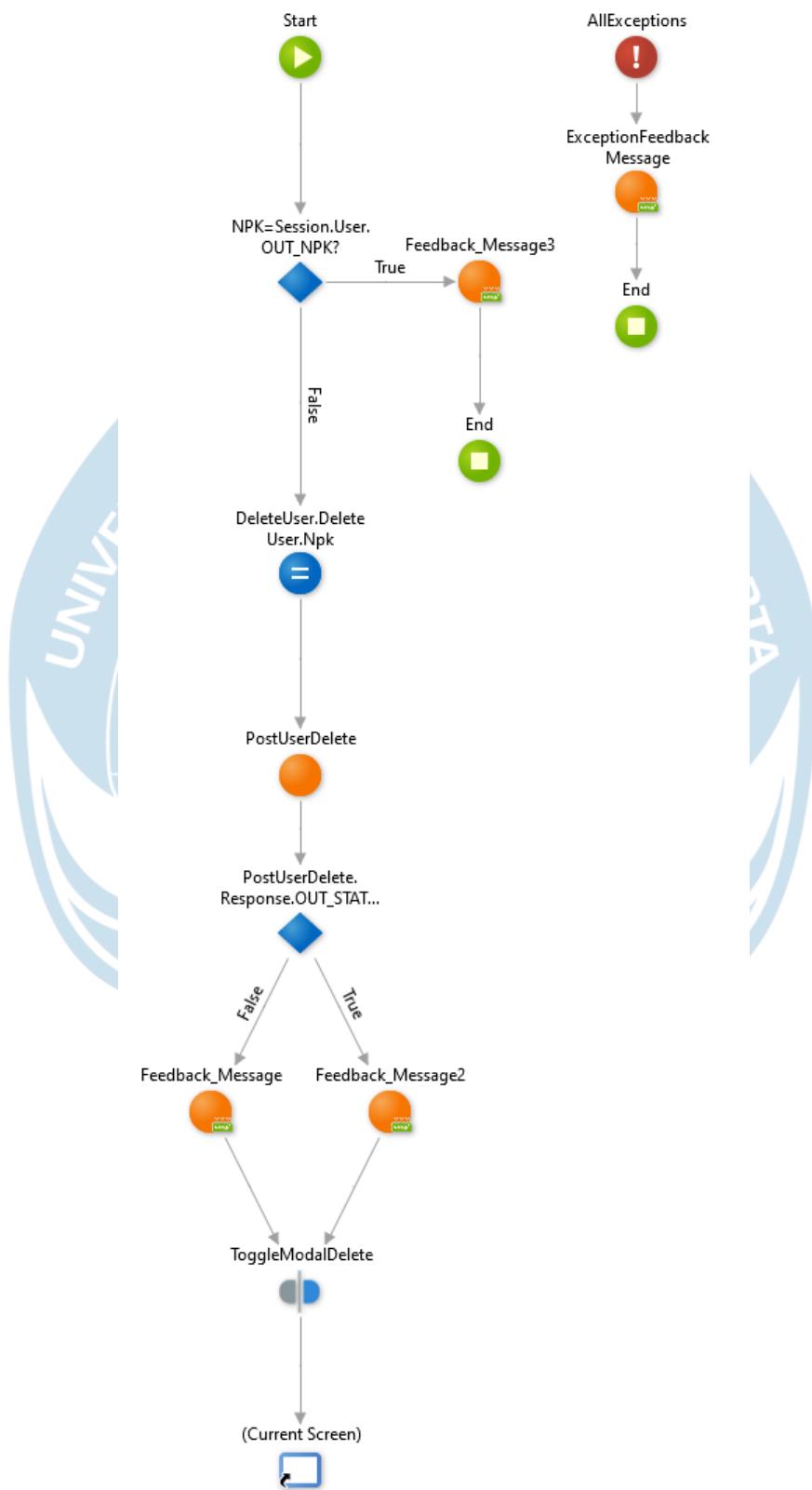
**Lampiran 46.1 UI flow user (list)**



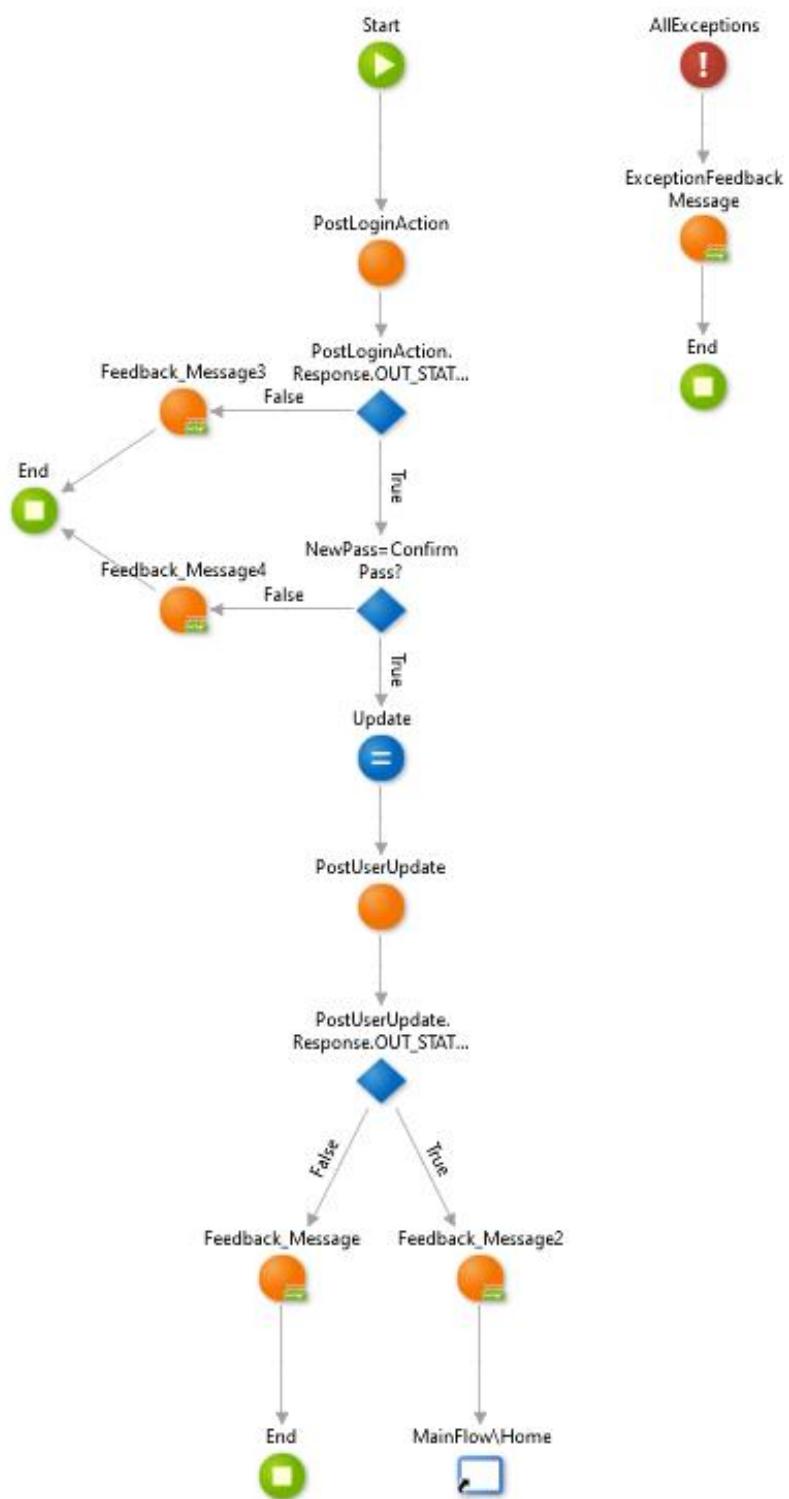
### Lampiran 47.1 UI flow user (create & update)



### Lampiran 48.1 UI flow user (delete)



### Lampiran 49.1 UI flow change password user



**TABEL REVISI**

No.	Tugas revisi	Halaman revisi
1.	Membuat abstrak menjadi 1 paragraf	Halaman Xlvii - xlviii
2.	Penyesuaian bagan dengan tahapan metode	Halaman 17-18
3.	Menjelaskan lebih detail tentang penelitian bobot dan skala prioritas pada tabel 4.16 product backlog	Halaman 55-56
4.	Mengubah Gambar 4.7 estimasi <i>daily scrum sprint</i> 1 dan 2 menjadi bentuk tabel	Halaman 59-60 dan 66
5.	Menjelaskan secara detail tahapan <i>sprint planning meeting</i>	Halaman 56-57
6.	Menyesuaikan saran nomor 1	Halaman 99
7.	Melengkapi alur sistem 4.1	Halaman 20-21