

*Flash*Cleaner

Automated Dish Clearing Robot System



GROUP 7

Problem & Existing Solution



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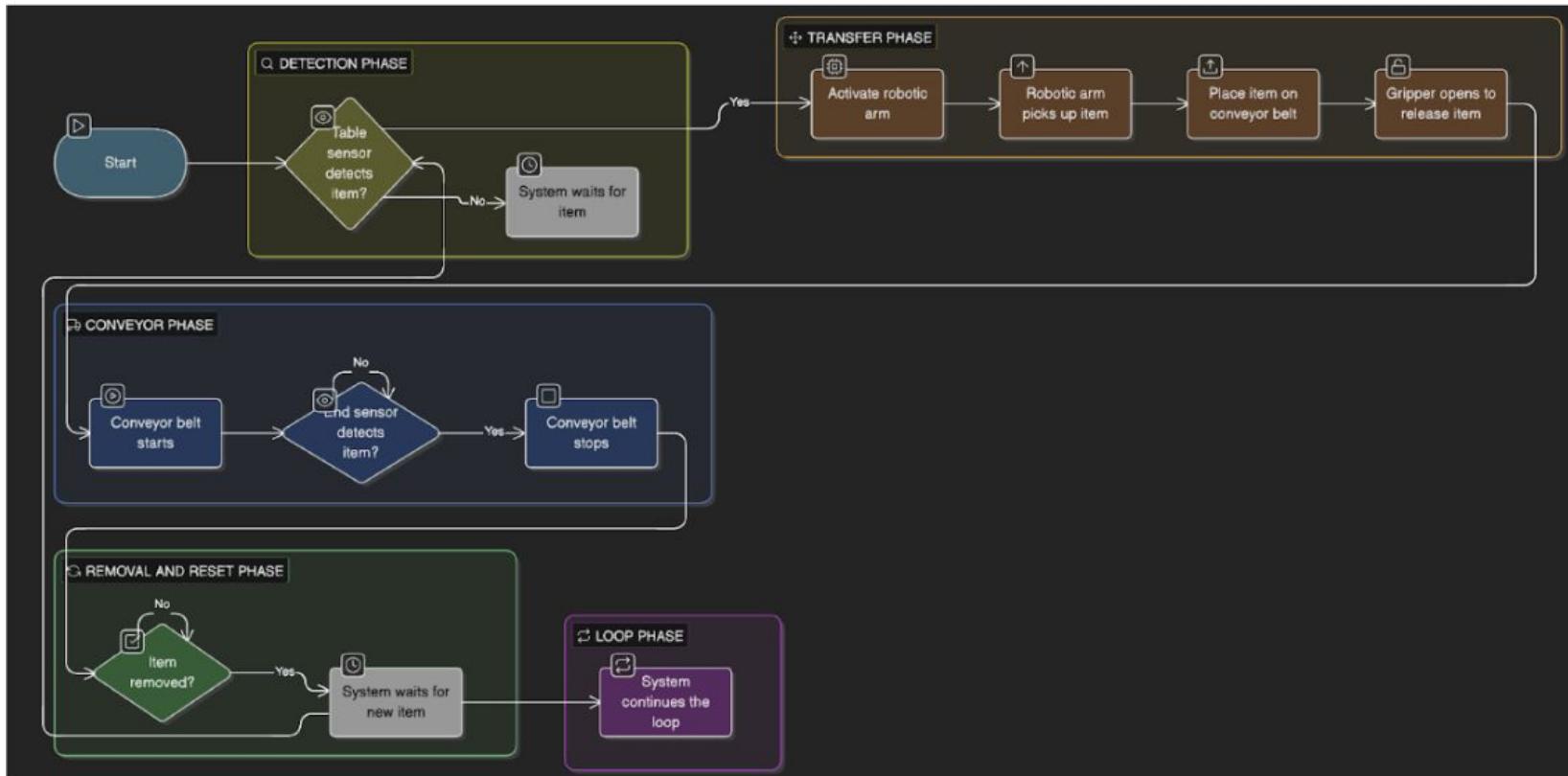
Løsning



Video

<https://www.youtube.com/shorts/0o5gSR4LZqY>

Flowchart - Elias



UR Script – Programlogik



- URScript
- Waypoints
- Loops
- Branching (if / else)
- Boolean logic
- Sensorstyring
- Industriel automation

GUI Og Sikkerhed - Elias

GUI -

System Login + Database Logout Clear log Recreate DB

Login

Username
fx: admin

Password
fx: admin

Login

Tip: Hvis DB ikke findes, oprettes den med adminr.

Når du er logget ind: Robot-tab vises. Admin ser også Users + Database.

Admin login -

System Login + Database Logout Clear log Recreate DB

Robot Users Database

Create user (admin)

Username

Password

Admin user?

Create user

Log

26-01-21 14.17.50 | Logged out.
26-01-21 14.17.53 | elias logged in.
26-01-21 14.18.50 | Logged out.
26-01-21 14.18.53 | admin logged in.
26-01-21 14.21.21 | Logged out.
26-01-21 14.21.24 | elias logged in.

Normalt login -

System Login + Database Logout Clear log Recreate DB

Robot

Robot kontrol

Her skal du koble din robot-kode på. Start med en

Run robot program (placeholder)

(Du kan også tilføje flere knapper, dropdowns, par

Log

26-01-21 14.17.50 | Logged out.
26-01-21 14.17.53 | elias logged in.
26-01-21 14.18.50 | Logged out.
26-01-21 14.18.53 | admin logged in.
26-01-21 14.21.21 | Logged out.
26-01-21 14.21.24 | elias logged in.

Principle of least privilege
Defense in depth

DATABASE

SystemLogin

System Login + Database Logout Clear log Recreate DB

Robot Users Database

Create user (admin)

Username: elias

Password: *****

Admin user?

Create user

Log

WHERE ORDER BY

	Username	Salt (UUID with time-low and time-high swapped)	SaltedPasswordHash
1	admin	9abbbd51-b2f9-4f0c-d598-d67fb8a8f283	0x0356173965030FF83BDB787E592C898EE6AB252B232262C5CF...
2	user	87e474fd-c5e5-412a-88fe-e97e3a2def92	0xFA1FB3F5E63FC0CB1A7D66A72FA2F3C051F138E8373D8CF3...
3	IsmaelHaiba	3c61dc53-7096-4b7d-ed79-f970bfd55394	0xAB3FFED731C33F1ED49FCB783895E10F7013CE4B89BC5F9E17...
4	elias	af1648a4-7644-56dc-398b-b77575ea2d95	0x6C90F662196B6F1E3DA13FB04EAB08D8F4E5061837DFB28835...

4 rows