BY ONETOUCHNEXTGEN

SAUF-O-MAT











Vision

Technologies

Project Management

Architecture



-



Automation

Testing

Demo

VISION

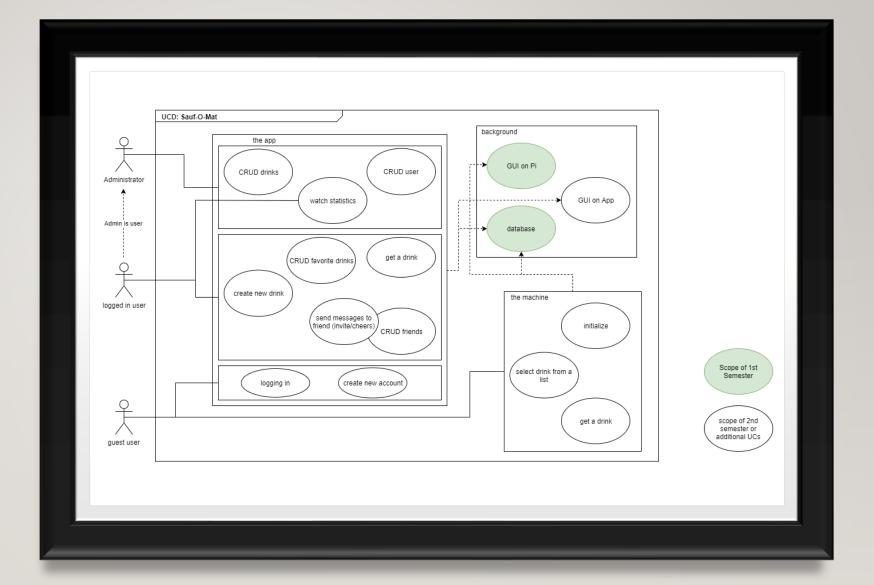




MOTIVATION

- Get cocktail by one touch (or click)
- Get people together
- Get costomized drinks
- See friends activities

HOW SAUF-O-MAT WORKS

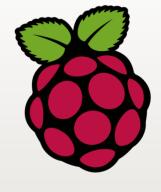


TECHNOLOGIES





MACHINE



- Wooden case
- Pumps via GPIO
- RaspberryPi 4
- Visual Studio Code
- Python







APP

- Visual Studio
- Xamarin → Android and iOS
- C#



BACKGROUND

- Windows Server
- SQL database
- Cucumber testing





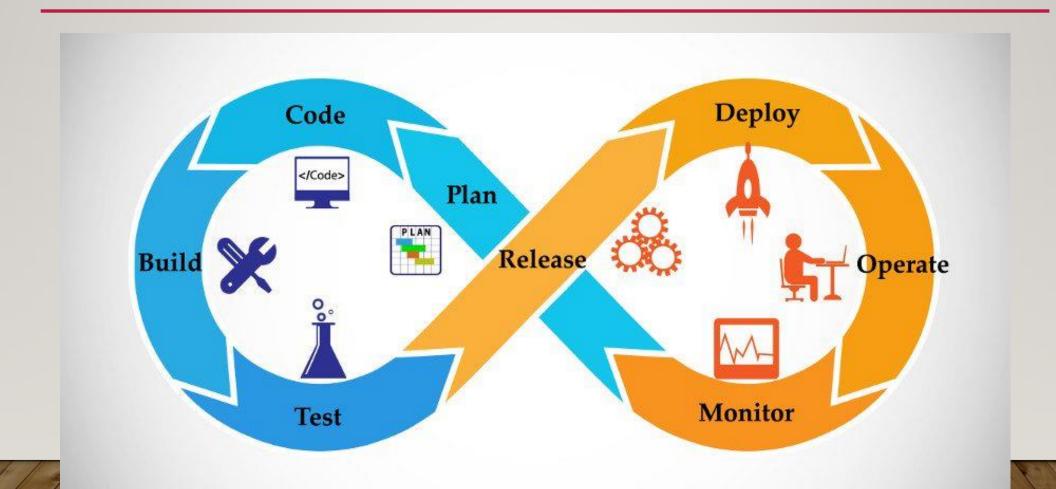




PROJECT MANAGEMENT



AGILE ENGINEERING



SCRUM

- Agile engineering
- Weekly sprints
- Using YouTrack for tracking



YOUTRACK

- Issue tracking system
- Project management software
- Time tracking
- Assign to workflow, sprint and teammember



BURNDOWN



ISSUE LIST (LATEST ISSUES)

| Issues | | Time estimated | Time spent |
|-----------------------------|---|----------------|---------------|
| Total time | | 60h 05m | 71h 40m |
| OTNG-33 hello world demo | | 00m | 6h 00m |
| OTNG-34 class diagram | - | 4h 00m | 30m |
| OTNG-35 wk8 blog entry | | 30m | 10m |
| OTNG-36 wk8 answer comments | | 15m | 10m |
| OTNG-37 wk8 write comments | | 30m | 30m |
| OTNG-38 weitere use cases | | 4h 00m | 6h 00m |
| OTNG-39 Pi Zusammenbauen | | 4h 00m | 4h 00m |

| Issues | | Time estimated | Time spent |
|------------------------------------|---|----------------|----------------|
| OTNG-40 feature file test | | 1h 00m | 5h 00m |
| OTNG-41 mvc | | 1h 00m | 1h 00m |
| OTNG-42 blogpost wk9 | | 30m | 30m |
| OTNG-43 write comments wk 9 | | 30m | 30m |
| OTNG-44 answer comments wk 9 | _ | 15m | 05m |
| OTNG-45 Revamp Server and Database | | 3h 00m | 3h 00m |
| OTNG-46 Midterm Presentation | | 3h 00m | 3h 00m |
| OTNG-47 UseCases on Pi | _ | 20h 00m | 16h 00m |

ARCHITECTURE



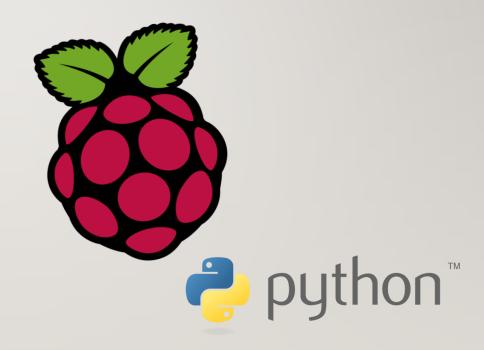


MACHINE

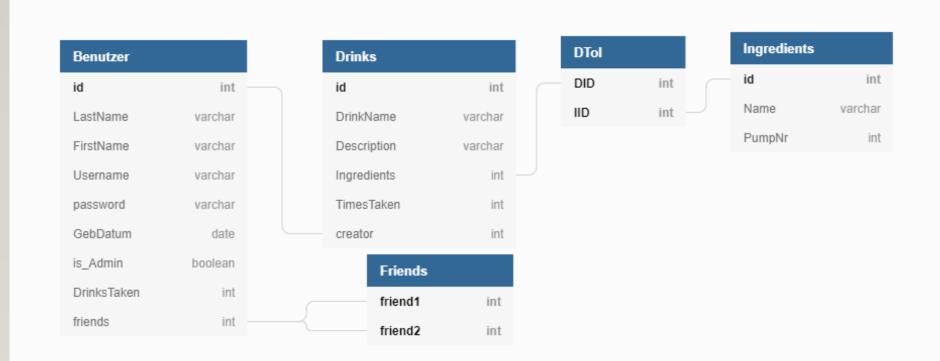
Python on RaspberryPi

- → no classes
- → no mvc-architecture

Pumps via GPIO → Relais board etc.



DATABASE





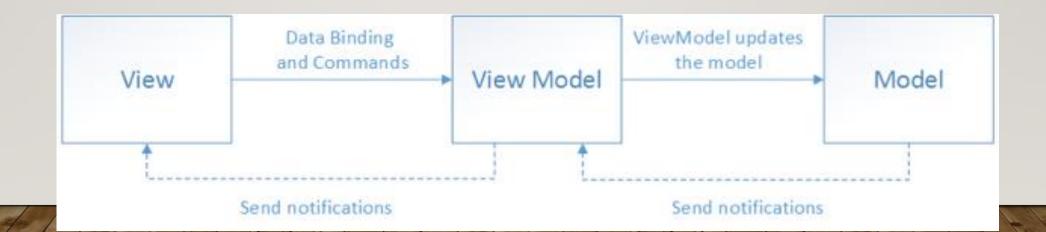
APP

Implemented in C# with Xamarin

- →Class diagram coming next semester
- → Mvvm-architecture coming next semester







AUTOMATION





AUTOMATION

- Designing a GUI with Drag&Drop with Pygubu and tkinter for Python
- Testing with selenium, cucumber
- Reports with YouTrack
- IDE connected to GitHub









TESTING







TESTING WITH FEATURE-FILES



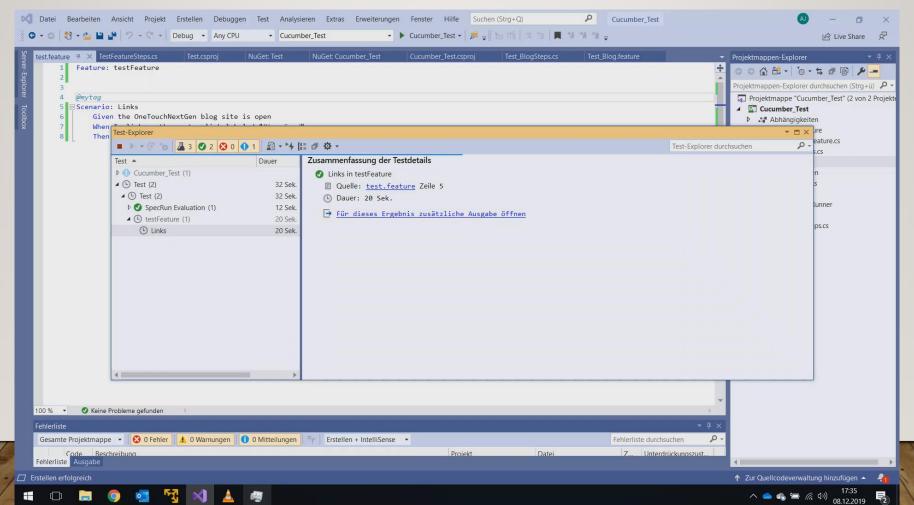
```
1 Feature: testFeature
2
3
4 @mytag
5 □ Scenario: Links
6 Given the OneTouchNextGen blog site is open
7 When I click on the custom link labeled "Blog Feed"
8 Then the page title should contain "Week"
```





VIDEO





TIME FOR A DEMO



THANK YOU FOR YOUR ATTENTION!

ANY QUESTIONS?

