

Smart Storage Unit

1 Project Management

- 1.1 Create a rough project plan
- 1.2 Gathering work packages
- 1.3 Assessing the time needed for each package
- 1.4 Create a project structure plan
- 1.5 Create a gantt chart
- Project start
- Project management finished

2 Hardware

2.1 Selection

- 2.1.1 Choose a small parts storage
- 2.1.2 Choose a LED-strip with fitting power supply
- 2.1.3 Choose a micro scale
- 2.1.4 Choose an Arduino
- 2.1.5 Choose a Raspberry

2.2 Construction plan

- 2.2.1 Design electric circuit
- 2.2.2 Design assembling plan

2.3 Assembling

- 2.3.1 Place LED-strips
- 2.3.2 Cut and grind parts to size
- 2.3.3 Screw wooden parts together
- 2.3.4 Build in touch panel
- 2.3.5 Build in micro scale
- 2.3.6 Solder parts together
- Purchase finished
- Construction finished

3 Raspberry

3.1 Setup

- 3.1.1 Install OS
- 3.1.2 Install Apache
- 3.1.3 Install MySQL
- 3.1.4 Plan database structure
- 3.1.5 Setup database

3.2 Arduino

- 3.2.1 Code LED-strip
- 3.2.2 Code interface with Raspberry
- 3.2.3 Create interface with micro scale

4 Android App

4.1 Design

- 4.1.1 Design login screen
- 4.1.2 Design main screen
- 4.1.3 Design overview screen of the storage
- 4.1.4Design screen for adding new item
- 4.1.5 Design screen for withdrawing an item

4.2 Code and test

- 4.2.1 Code and test login screen
- 4.2.2 Code and test main screen
- 4.2.3 Code and test overview screen of the storage
- 4.2.4 Code and test screen for adding new item
- 4.2.5 Code and test screen for withdrawing an item

5 Website

5.1 Design

- 5.1.1 Design login page
- 5.1.2 Design homepage
- 5.1.3Design search result page
- 5.1.4 Design page for withdrawing an item
- 5.1.5 Design page for adding new item

5.2 Code and test

- 5.2.1 Code and test login page
- 5.2.2 Code and test homepage
- 5.2.3 Code and test search result page
- 5.2.4 Code and test page for withdrawing an item
- 5.2.5 Code and test page for adding new item

6 Touch panel

6.1 Design

- 6.1.1 Design login screen



