

Software-Engineering Design
with Prof. Dr. Wagner
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Project: Elevator
Project report week 24

1. Changes to the project and our reaction to them

- Now there is an architect interested in the project
 - Maybe he needs to have assurance that there is not too much weight in the elevator
 - Only one person can travel at a time and since the scheduler takes care of the created people, nothing can happen
 - Wants to have more statistical data
 - We did implement more information in the state – function
 - This did not effect our diagrams since we had stats before
 - Also it would be nice to have a log
 - Implemented a function for creating a log file every 5 seconds
 - added this function and a visualization of the file to the UML class diagram
 - No changes in the other diagrams since these are mostly describing the interaction by the user but nothing did change there
- The customer wants a GUI (graphical user interface)
 - It is necessary to create an graphical interface which lets the user use all the features our previously command-line program has just with his mouse and keyboard
 - So the UI should deliver possibilities for monitoring and controlling the behavior of the elevator
 - Since we are using Java, it was the easiest and quickest solution to implement the GUI with the Swing – API. We did use text fields and scroll-able lists for displaying content, buttons for controlling the simulator, dialogs for prompts and user-inputs and labels describing some of the other elements. It is also planned to add a menu bar with helpful functions like a “FAQ” or an “about” dialog.

2. Updates

- New UML class diagram which is based on the old one but includes the separation of all classes into packages and many additional functions and the new class (and package) for the graphical user interface.

- The Java code was enhanced to have more statistic features, the creation of a log file, a GUI and an (non-perfect, yet) automatic driving mode for the elevator.

3. Current status and updated estimation

- We basically reached all the milestones we desired and implemented almost all features we need for the elevator project
- Anyways there is a little more time required for bug testing and fixing. Since this is not a huge project, most things are easily manageable but as stated before, we for instance still have a bug with the automatic mode of the elevator (which is not included in the GUI yet, because of not working properly).