**Java-Documentation**

Members:

Name: Gökhan Yeltekin MatrNr.: 1089237

Name: Selim Dinas MatrNr.: 1056053

Name: Tobias Schulz MatrNr.: 1117659

Task distribution:

Gökhan Yeltekin:

Selim Dinas:

Tobias Schulz:

Architecture of the application:

The program starts with a login window, where you can choose between a nurse and a doctor. After that you have to enter a password and click on the login button.

Now you can see all the existing patients. You can delete patients or create new patients. To delete a patient you must select a patient and then click on the “Delete Patient” button.

If you want to create a new patient, just click on the new patient button. Now a new window will pop up. Here you have to fill in the data about the patient like name, birthday, age, address, gender, phone and problem. If you choose the option outpatient, the patient will not be assigned a room. If you choose the option inpatient, the patient will be assigned a room. At the tab doctors you also can delete a doctor by selecting a doctor and click on “Delete Doctor”. To create a new doctor, you have to click on the button “New Doctor”. Here you have to fill in the data like name, birthday, age, gender, address and phone. The same goes for the nurses. You also can delete a nurse by selecting a nurse and click on “Delete nurse”. To create a new nurse, you have to click on the button “New nurse”. Here you have to fill in the data like name, birthday, age, gender, address and phone. At the task vitals a nurse or a doctor can see the body temperature, blood pressure, pulse rate and the breathing rate. At the tab Alert you can see if a patient have dangerous vital values. If a patient dies a message will pop up and the values freezes.

Description of any 3rd party library used in the project:

For our project we used jgoodies-1.9.0, window builder 1.9.0, LGoodDatePicker 8.3.0 and sqlite-jdb-3.15.1. We used jgoodies-1.9.0 to get our layout to implement consistent Swing panels fast.

With the window builder 1.9.0 we created our windows and designed them. We also created new buttons and text field´s. for the password field we used the jpassword field which hides the characters of the password that the user typed.

With the jcombobox you can choose between nurse and doctor. For the login button we used jbutton and implemented the event actionPerform to jump to the next window.

The next window consists of five tabs like patients, doctors, nurses, vitals and alerts. For the tabs we used jtappedpane. The patient tabs consist a list of patients with informations about their vital values. For all Tabs that we have, we have the opportunity delete or create patients. To do this we also implemented an event actionPerform. If you select a patient and click afterward the delete button, the patient will deleted immediately. And if you press the new button, u can create new patients.

Milestones of the project:

Description of the GUI: