REQUIREMENTS

2.1. STAKEHOLDERS

1. System administrator
2. Application users

2.2 FUNCTIONAL SYSTEM REQUIREMENTS

1. The user shall be able to choose eye images as inputs.

1.1. The system shall display eye images as input to the screen.

1.2. The system shall mark all the eyes images selected by the user as wanted input.

1.3. The system shall move copies of the chosen eye inputs to the next stage (processing stage).

1. The user shall be able to choose the expected output as identification data.

2.1. The system shall display identification as one of the outputs.

2.2. The system shall check if the identification output has been chosen.

2.3. The system shall use the chosen input to process the data.

1. The user shall be able to choose the expected output as demographic data.

3.1. The system shall display demographic as one of the outputs.

3.2. The system shall check if the demographic data output has been chosen.

3.3. The system shall use the chosen input to process the data.

1. The system administrator shall be able to edit the eye images in the database.

4.1. The system shall display an edit confirmation message to the system administrator.

4.2. The system shall display a list of edit options to the system administrator.

4.3. The system shall display a save edits made confirmation message to the administrator.

4.4. The system shall save the edits if the confirmation message is confirmed.

4.5. The system shall discard the messages if the confirmation message is declined.

2.3. NON-FUNCTIONAL REQUIREMENTS

1. The system shall be available to users 24hrs a day.

1.1. The system shall check every 2hrs (system troubleshoot) that all parts are functioning properly.

1.2. The system shall send a notification to the system administrator about any errors that occurred.

1. The system shall work on windows operating system.

2.1. The system shall run on all devices with windows 7 and above operating system.

2.2. The system shall display an error message if the device is incompatible.

1. The system shall be coded using python programming language.

3.1. The system shall be built using python programming language.

2.4 DOMAIN REQUIREMENTS

1. The user shall choose only one eye image as an input.
2. The user can choose either one output option (identification or demographic data) or both outputs to be displayed as the result.

2.5 ASSUMPTIONS AND JUSTIFICATIONS

1. The eye images used are not captured in real time but are taken from a database. Capturing an image in real time, especially a detailed eye image, requires special cameras. Also, problems such as eye sensitivity may occur due to flashes. Lastly, ethical issues might occur due to taking people’s eye scans in school.