TakuMahi

First Evidence Review

What is **Taku**Mahi?

TakuMahi is the fresh solution to rostering at AskOtago.

Our application will handle rostering by managers for several organisation employees, using an intuitive web interface.

Employees will be able to view their upcoming shifts, view open shifts, trade or swap shifts with their colleagues, and export their roster to a third-party calendar service.

The service will be custom built to fit AskOtago’s needs, and fit their brand specification. Although the service should also be adaptable for use by other companies.

Who are our Stakeholders?

- University of Otago Executive Management
- AskOtago Management
- AskOtago Employees
- Developers

The stakeholders of our application, as listed above, are the people who will be using the service. And the people above them who will have to supervise, and finance the project.

We will also be stakeholders while the service is being developed and maintained.

Key Features

- Users will be able to log into an online website
- Employees will be able to view their shifts
- Employees are able to select suitable times to work
- Employees are able to swap shifts with another employee
- Employees should be able to clock in and out of their shifts using GPS.

Key Features

- Managers will be able to filter shifts by certain criteria
- People would be able to connect to the server from anywhere with an internet connection
- The webpage will be designed in a similar fashion to other Otago IT systems.
- Authorised users would be able to create new accounts for staff
- Authorised users would be able to alter employees shifts

Feasibility Research - Technical Requirements

- Our group members are mostly experienced in Java, but also have experience in other languages such as JavaScript, SQL, HTML and CSS. We are all confident in our fundamental understanding of OO Programming.

- We plan to implement our project as a web-app, which should be beneficial for us considering our experience in relevant web development languages.

- Given our experience and the scope of our project, we are confident we will be able to adapt to any unforeseen changes during development.

Feasibility Research - Operational Challenges

- Reliability:
  - Depends on our users to have an internet connection, and our server ability to stay online
- Maintainability:
  - It will be a standalone application.
  - Therefore we will only need to update our system to support modern browser functionality.
- Usability:
  - Needs to be supported across a wide range of devices and browsers, since all Otago employees need to be able to access it from home and personal devices.
  - Therefore, will should be usable across different devices and browsers.

Feasibility Research - Schedule

- The project with full functionality and all essential components of the software is planned to be done within 3 months.

- Once the setup is done, there will be consistent monthly updates for bug fixes and software enhancements.

Feasibility Research - Resources Required

- Will require a live server
- The server should be able to store the database and run the web service.
- The web application should be runnable through most modern browsers, including ones on personal mobile devices.