

Project Tender

Project: Insurance Profiling

Client: Retro Rabbit

Team: HTTP_418

Christiaan Saaiman, 12059138

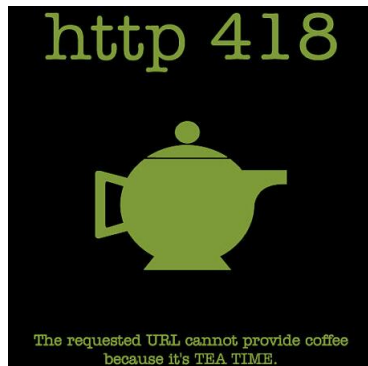
Michael Loosen, 14017254

Elizabeth Bode, 14310156

LC Meyers, 14024633

Department of Computer Science, University of Pretoria

May 1, 2016



1 The Team

1.1 LC Meyers



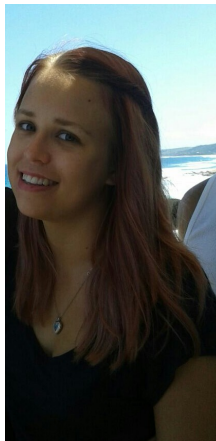
- **Full name:** Lodewyk Charles Meyers
- **My interests:**
 - Gaming
 - Computers
 - Music
 - User experience design
 - Website design
 - Anything new related to technology
- **My technical skills:**
 - Web development skills
 - Database design
 - Java
 - C#
- **Past experience that might help:**
 - I collaborated on a website for a school as part of a project.
 - As part of the above mentioned I had to embed a Facebook plugin into the website and have thus acquired some knowledge on how the Facebook API's work.

- **Non-technical strengths:**

- I have a high amount of patience
 - Hardworking
 - Eager to learn new things
 - Enjoy trying to solve complex problems

- **What makes me want to do this project?** This project sounds like huge fun to do. I love web development and will enjoy this project a lot. I don't mind the challenge of designing the profiling engine and will graciously accept the challenge.

1.2 EF Bode



- **Full Name:** Elizabeth Fae Bode

- **My Interests:**

- Puzzle Games (eg. Sudoku)
 - Computers
 - Art
 - Music
 - User experience design
 - Website design
 - Gardening
 - Reading books

- **My Technical Skills:**

- Web development skills

- Database design

- Java

- C#

- C++

- Good at writing

- **Past Experience that Might Help:**

- I have a decent accounting and mathematical background which should aid in the implementation of this project. I thoroughly enjoy web-development and interface design which is appropriate for this project as it is a necessary component that needs to be developed. I have dabbled in scraping components but I do not have much experience in scrapers nor do I have much experience in developing profiling engines. However, I am eager to learn both of these types of components and have no doubt that once I have an understanding of how to develop them, that I will be able to implement them with my team to the utmost of my ability.

- **Non-technical Strengths:**

- Good at decision-making

- Good at problem-solving

- Hardworking

- Organised

- Responsible

- Eager to learn new things

- Perfectionist

- **What makes me want to do this project?**

- I am very interested in working with Retro Rabbit and have been since I spoke to a couple of their employees at the career day in the IT building at the University of Pretoria. I also enjoy, as mentioned above, web-development and have experience in both mathematics and accounting, which made me very interested in this project.

1.3 C Saaiman

- **Full Name:** Christiaan Saaiman

- **My interests:**

- Reading books

- Piano playing



Gaming
Coding
Web Design
User Experience Design
Cooking and Baking
Anime
Languages
 German
 Italian
 Japanese
Artificial Intelligence
Phones, Computer Hardware and Next-Gen Consoles

- **Technical Skills:**

Web Development Skills
Java
C++

- **Past experience:**

6 Months intensive Java Training Course
6 Month Internship at Accenture
 Intense Oracle Systems Training
 Leadership Training and meetings with the MD of Technology
 pitching an idea a colleague and I had.
 Tiger Brands' System upgrade from Oracle Database 11g to 12c

Android App development using PhoneGap

- **Non-technical Strengths:**

- Excellent Leader, not afraid of conflict
- Excellent communicator
- Curious and eager to take on challenges
- Problem solver
- Dedicated and hardworking
- Creative and spontaneous

- **Reason for Project Tender:**

The project proposal peaked my interest in several ways. Firstly I thought the idea of creating and application that allows people to with ease and inexpensively generate an insurance risk profile was very very intriguing and exciting. It makes for a challenging and enticing problem that needs solving using creativity. Secondly I was also drawn to the technology usage. Not only is web development a necessary skill, but being able to write a Facebook Trawler, searching and gathering information is a whole challenge on its own. A very knowledge enriching challenge. Then lastly I am eager to learn from the experienced coders at Retro Rabbit. I would love to be able to delve into the rich information pools that will ultimately enable me to perform better.

2 Project execution

- **Development Methodology**

We plan to follow the Agile development methodology as it involves regular communication with the client to ensure the project results in exactly what they want. It also has a focus on the people system and their interactions with it which we believe is way more important than focusing on the processes and tools of the system. We strive to maintain a continuous attention to designing the system well and ensuring that all the technical aspects are coherent with the requirements. All of which makes the Agile development methodology perfect for our vision for your project.

- **Progress Communication Plan**

We plan on meeting up with you as the client on a regular basis, either face-to-face or via Skype, whichever is more convenient for you at the time, in order to keep you updated regarding the status of the project and to clarify requirements. We are also willing to communicate either via WhatsApp or email, whichever you prefer, in order to discuss the project and the progress of it, if face-to-face meetings are unable to take place for whatever reasons.

- **Technical Challenges & Possible Solutions**

We as a team believe we will have no problem with the front-end, as we are all well versed and experienced not only with Web Development but also User Experience Design. Our concerns lie with the Facebook scraper and the Profiling engine. We are not daunted by these two aspects of the project and we are very eager to learn the technologies needed for the project to be a success. We will be in close contact with Retro Rabbit and asking for assistance where we need it. Both Mr. Meyer as well as Mr. Saaiman is currently undergoing the Artificial Intelligence module at the university, so they will be able to apply their knowledge where necessary. As for Ms. Bode and Mr. Loosen, both are smart and hardworking and will not back down from unfamiliar waters. We will also consult with our other lecturers about the problems at hand if need be, especially Prof. Engelbrecht, our HOD.

- **Technologies we will use for the project:**

- For the front end we will use Bootstrap framework along with JQuery to handle AJAX requests to the server. Bootstrap makes making responsive websites very easy, thus the choice in Bootstrap.
- For the backend we will use Python along with Django. Django offers REST wrapping for the Ajax requests that will come from the client. Python is chosen because of the relative few lines of code for a task as opposed to Java. Therefore we will need less development time to develop a server with built in AI functionality to do the risk profiling.