

Consultant Tracker

EPI-USE

Binary Ninjas:

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Sizo Duma

Teboho Mokoena

John Ojo

Kevin Reid

Shaun Yates



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1 Description

1.0.1 Login

The requirements will be fulfilled by a single application. Once a user has logged on, they will be presented with the option to enter admin or consultant mode, with certain options locked out: depending on the privileges of the user—it should be possible to designate a preferred mode, which will be auto selected once logged on.

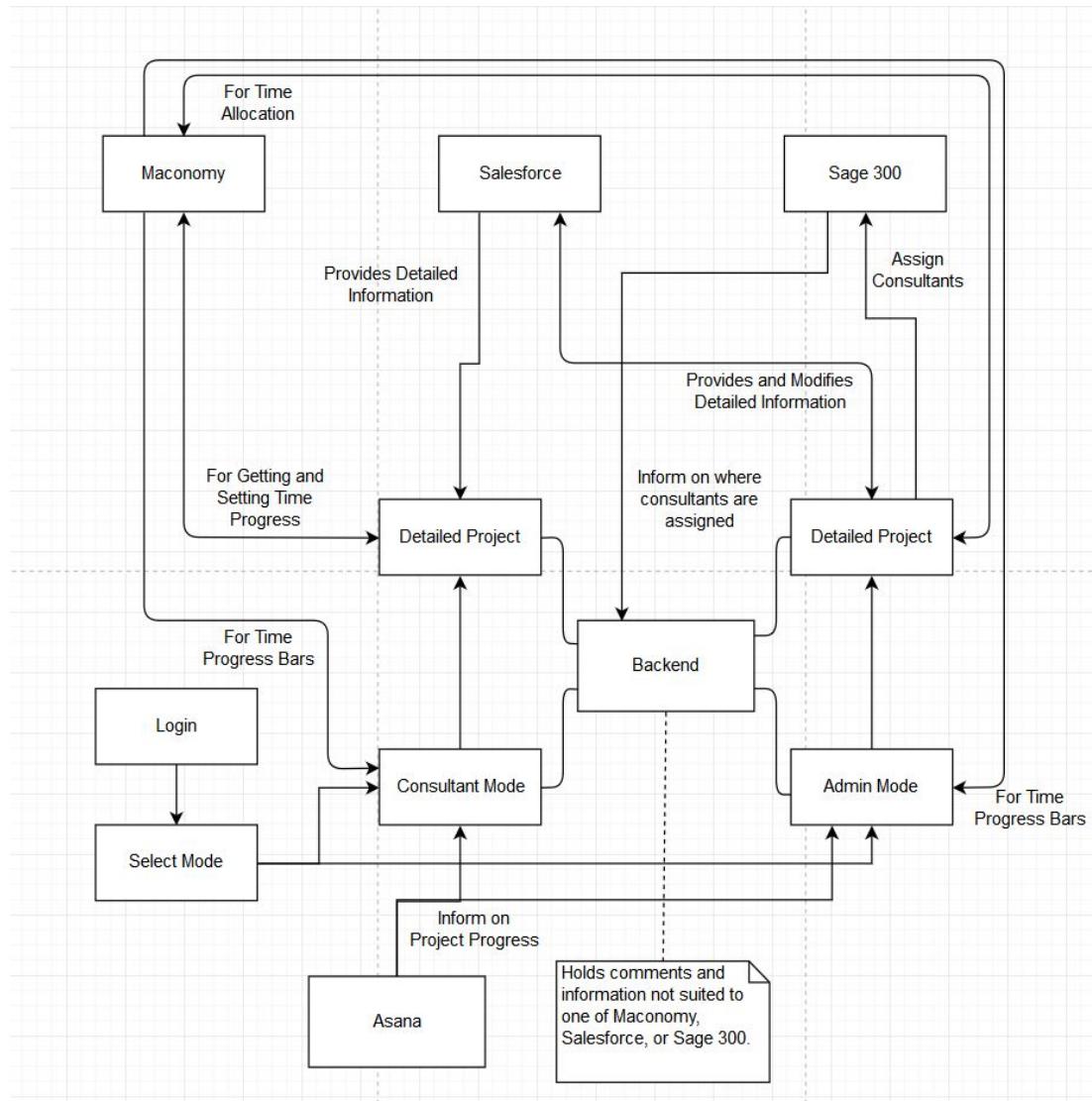
1.0.2 Admin Mode

The app will provide the user with an overview of projects and resources where project progress can be seen in the form of a progress bar, a project will be highlighted if the hours worked threshold is reached. They should be able to select a project to enter a more detailed, project specific interface, from there; resources can be assigned and monitored; hours assigned; comments seen, and made.

1.0.3 Consultant Mode

Here, the consultant is logged on, and can see an overview of their assigned projects and a progress bar to see what percentage of hours they have logged (and what they still need to log). Any project can be selected to see an overview of comments that have been made, and to make a new comment: this represents an easy way for consultant and manager (admin) to communicate and formally log any issues; from the detailed project view, time can also be logged.

1.1 Domain Model



2 Technologies

As per the specification, we will use:

- OpenUI5 for the frontend,
- Java for the backend,
- MongoDB for the database,
- and potentially REST and SOAP for third party systems.

3 Development Methodology

The team is very diverse, ready, capable, and eager to solve a variety of problems. Our meetings as a team should happen regularly, but not unnecessarily, the wonder of the modern world is the ability to so easily communicate, so as far as possible, we will solve what we can without needing to meet every day, so that when a meeting does take place we can keep it concise and informative.

As far as the responsibility of EPI-USE goes: we will need to meet semi-regularly in order to ensure that progress is according to specifications; simultaneously, we will need time to play with Salesforce, Maconomy, Sage 300, and Asana.

We intend on following the SCRUM agile methodology.

3.2 Motivation

This appears to be a very interesting project which will expose the team to a whole variety of new tools and technologies; so on a personal level it will be a great learning experience. Further, it is an opportunity to work with a large and professional company, and come to grips with the realities, challenges, and cohesion that comes from being a part of the corporate world. We as a team are motivated and ready to take on these challenges, and hope that the opportunity do so will be afforded us. Either way, we look forward to what the future holds, and hope it holds EPI-USE somewhere.

Best Regards,

Binary NinjaZ.

1 Meet the Team

1.1 Letanyan Arumugam

1.1.1 Skills

- Programming Language: C, C++, Java, Swift, Objective-C, SQL, Python, Delphi, x86 ASM, HTML, JavaScript, CSS, PHP, Bash.
- macOS, iOS, tvOS, watchOS development
- Windows development
- Web Development
- Known Technologies: MAMP Stack, Git, XCode

1.1.2 About Me

I am currently a 3rd-year student at the University of Pretoria studying BSc. Computer Science. In my spare time, I'm an active member of the Swift-Evolution community, which deals with the language design of, the programming language, Swift. With Swift, I have created applications that have were published on the Apple App Store. Building these apps allows me to do a few things that I enjoy. These would be algorithm optimisation, user experience and designing an excellent looking user interface.

1.2 Sizo Duma

Course : BSc Information Technology (Software Development stream)

Career Interest : Software Development/Engineering , Systems Engineering

1.2.1 Skills

- Programming (C, C++, Java, C#, 64bit ASM)
- Database Systems (Relational & Object Oriented)
- Systems Design/Modeling
- Mobile Development (Android Studio)
- Web Development (LAMP/WAMP)

1.2.2 Bio

I started at the University of Pretoria in 2015 studying Computer Science. In second year I decided to switch to the BSc Information Technology program which allowed me to take Computer Science along with Informatics as a second

major. I did this because while I am highly passionate about the deeper back-end development that Computer Science targets, I also love business. I particularly like the business aspect of IT with front-end development, and wish to attain as much knowledge as I can about: systems development, front-end development, and back-end development which are all catered for best in BSc Information Technology (Software Development). I am passionate about what I am studying which makes putting in the extra effort to always produce a perfect product that much easier.

1.3 Teboho Mokoena

Institution Enrolled: University of Pretoria

Degree Programme: BSc It (Knowledge and Information system)

Module: Software Engineering

Study Level: Final Year

1.3.1 Biography

I started BSc IT (Knowledge and Information Systems) in 2015, I am currently doing my final year at the University of Pretoria. I have been a member of World CodeSprint 12 (local and global coding competition) since the year 2016. My enthusiasm for programming and Computer Science remains undiminished after facing many challenges, including a cancer diagnosis (which I underwent treatment for and have been cured from) and the death of two immediate-family members - to mention a few. I have a determination to finish what I start and a hunger to do more. I have this relentless passion for programming and software engineering allows me to maximise my potential.

1.3.2 Interests

- Coding Contests
- Android Application Development (Android Studio)
- .Net Application Development
- WeightLifting,Reading, and Gaming

1.3.3 Skills

- Programming (and Netcentric) Languages: C++, Java, C, C sharp, MongoDB, NodeJS, Javascript, PHP
- Android Application Development and .Net Application Development
- Software Modelling, Operating System and Concurrent Systems

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- API and REST Architecture interfaces
- Xamarin Mobile Application development

1.4 John Ojo

Course: BSc Information Technology and Applied Mathematics

Career Interests: Software Developments/Engineering, Financial/System Analyst

1.4.1 Skills

- Programming (C++, Java, MATLAB, SAS, Assembly)
- Web development
- Database Systems (Relational)

1.4.2 Bio

Since the beginning of my degree I have been looking forward to doing Software Engineering. I wanted to combine different systems, mix the old and the new and especially combine mathematics and Information Technology. Mathematics has been the one subject that has been getting the best of students since the beginning and IT is the new world that everyone wants to be part of. I chose to do both to truly defeat something that has challenged to students and join the world of IT where concepts and theories were made possible. I want to work with different people, create things that were just thoughts and improve life as a whole. IT gives me that opportunity.

1.5 Kevin Reid

High School: IEB Matric Certificate (English, Afrikaans, Life Orientation, Mathematics, Information Technology, Accounting, Physical Sciences)

University: 2015-2H2016: BEng. Computer Engineering, 2H2016-Present: BSc. Computer Science.

1.5.1 Skills

- Languages: C, C++, Java, Assembly (x86_64 YASM), HTML, JavaScript, CSS, MySQL (MariaDB), PHP, BASH, ZSH, LaTeX
- Experience With: GNU/Linux (Debian and Arch based), 3D modelling and texturing (Blender), Circuitry and Electronics, LAMP Stack, Git

1.5.2 About Me

I came out of high school and went into computer engineering for a year and a half, after only enjoying the computer science modules, I decided it was time to

make a change. Since that change, I have grown to love almost all things computer science, and have never been happier.

In my spare time I tend to enjoy video games, series and movies. But otherwise, I take great pleasure in programming--nothing better than a good challenge--or other computer related things; like when you have over 60 mods (it's not many I know) in Skyrim and it all works--then you realise that that's actually the best part of the game; or learning Dvorak was great fun; blender's my on and off again lover; installing and configuring an operating system is always a hoot--speaking of: it's time I installed Arch again...

1.6 Shaun Yates

Course: BSc (Information Technology) – Information and Knowledge Systems

Career Interest: Artificial Intelligence

1.6.1 Skills

- Programming Languages (C++, Java, MySQL, HTML, CSS, JavaScript, PHP)
- Database Systems (Relational)
- Systems Design/Modelling

1.6.2 About Me

I was shown the world of IT at a young age due to my dad being an IT consultant, which helped show me that a career in IT is what I want to do with my life. I started my course in 2016, originally taking the Genetics elective group due to it interesting me; it also allowed me to take Artificial Intelligence in third year, which few elective groups allow. Now, in third year, I got the choice to take more Computer Science related modules instead of the Genetics electives, and I opted for that instead. In my spare time I enjoy series or going out and meeting new people. I like to think I'm a very sociable person and look forward to working with many different people in the years to come, as I firmly believe you can learn a lot from anybody that you meet.