



UNIVERSITEIT VAN PRETORIA  
UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA

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## PROJECT TENDER

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PROJECT

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CLIENT(S)

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TEAM: TERABITES

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TEAM MEMBERS

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Christiaan Nel  
Dzilafho Mulugisi  
Eltom Tom  
Gershom Maluleke

DEPARTMENT OF COMPUTER SCIENCE, UNIVERSITY OF  
PRETORIA  
May 1, 2016

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## GROUP BACKGROUND

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- Our team is made up of individuals that are all studying towards different computer degrees. We bring a unique perspective as we are able to give individual ideas on how to solve a problem, and at the same time incorporate other members ideas to form an ideal solution to any problem. Our group understands each other and each person brings something different to the team.
- As individuals we are strong in specific situations, together we are stronger in every situation that will come our way. For this project we have discussed that instead of using a divide and conquer method, we will unite in completing each phase of this project as quickly as possible. This allows us to ensure that we do not forget to implement a point that might have been overlooked as this often occurs when a member works alone. It also guarantees that once a phase is completed we do not move backwards only forward.
- We are all excited and prepared to work hard and well on this project and we believe that you will be satisfied with the outcome. We are more than prepared to research and learn about the fields we currently lack. We would like to do this project because it is a unique and interesting project that would allow us to expand our skill set and challenge us in a way that has not been done before.

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## TEAM MEMBERS

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Name: Christiaan Nel

Email: u14029368@tuks.co.za

Phone: 0728359073

Field: BSc IT

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## INTERESTS

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- Solving problems through programming
- Gaming

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## TECHNICAL SKILLS

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- Programming: C, C++, C#, Java
- Web development: JavaScript, PHP, SQL, HTML, CSS
- Good at mathematics

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## PAST EXPERIENCE WHICH MIGHT BE RELEVANT FOR THE PROJECT

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- COS 301 Mini project which gave me some experience in how version control systems and automated build systems work, as well as how different teams working on different components can collaborate to work on a single project.

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## NON-TECHNICAL STRENGTHS

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- Fast learner
- I can work hard on solving a problem

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## WHAT MAKES YOU WANT TO DO THE PROJECT

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- It's an interesting idea
- It looks fun



Name: Dzilafho Mulugisi

Email: u13071603@tuks.co.za

Phone: 0798056530

Field: BSc Computer Science

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## INTERESTS

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- Automotive Journalism
- Web Technology
- Building Computers
- Self learning
- Socializing

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## TECHNICAL SKILLS

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- Fixing Computers
- Java, C++, C, Intel Assembly and Web Programming
- Fault Detection
- Operating Systems
- Databases

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## PAST EXPERIENCE WHICH MIGHT BE RELEVANT FOR THE PROJECT

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- The UP Department of Computer Science recently prepared us for effective team work. I worked in a mini project where we had to deal with various constraints in groups. The challenges included differences in level of knowledge, interest, personalities and different types of pressures including time amongst others. From this I learnt how to work when under pressure and stepping out of my comfort zone and work with people whom I did not know.
- I have attended numerous workshops by Studietrust in which we were exposed to challenges and had to work in groups to resolve the provided problems. In order to solve the problems we had to combine the best of each group member. I can now effectively work well in groups even when the personalities of the group members are opposites.

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## NON-TECHNICAL STRENGTHS

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- Team Work
- Quick learning
- Leadership and Planning
- Effective listening and discussion
- Future Visualization

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## WHAT MAKES YOU WANT TO DO THE PROJECT

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- As a young adult I am soon to be exposed to the world of properties. I will have to find a place of my own soon when I begin working and have to be fully responsible for myself. In order to effectively spend and manage money I need to know about risks and returns of property investment.
- The project is very interesting because property investment is something I have no experience with but I am very interested in. The project arouses my curiosity and I find it intriguing to learn about it.



Name: Elton Tom

Email: u13325095@tuks.co.za

Phone: 074 902 1879

Field: BSc Computer Science

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## INTERESTS

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- Solving problems
- Web programming
- App development
- Business process management

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## TECHNICAL SKILLS

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- C++ and Java skills
- Mathematical literacy and Solving problems
- Front-end (HTML, CSS, JavaScript/JQuery) and back-end (PHP, MySql) development skills

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PAST EXPERIENCE WHICH MIGHT BE RELEVANT FOR THE  
PROJECT

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NON-TECHNICAL STRENGTHS

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- Working under pressure
- Working within a group
- Clear and concise communication
- Intellectual curiosity

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WHAT MAKES YOU WANT TO DO THE PROJECT

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- With the skills that I have acquired throughout my tertiary years, I am confident that this project suits my skill set, but also it is the challenge of this project that I look forward to as it will bring a lot of experience on a personal level. With this being said.





Name: Gershom Maluleke

Email: u13229908@tuks.co.za

Phone: 0846440171

Field: BSc Computer Science

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## INTERESTS

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- Programming(Application, Game and Web development)
- Technology and Gamming
- Travelling, hiking, Soccer, volunteering, Boxing, Cricket

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## TECHNICAL SKILLS

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- Languages: C, C++, Java, Python, Delphi, SQL, HTML, JavaScript, PHP, AJAX, JSON, CSS3 Test Driven Development (TDD), Teamwork
- Tools: JBuilder, Dreamweaver, Rational Rose, UltraEdit, BorlandC++Builder, Oracle SQL\*Plus
- Operating systems: Windows, Linux, Mac OS X.
- Graphic design: Adobe Photoshop, Adobe Illustrator, Blender, 3DMAX, MAYA

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## PAST EXPERIENCE WHICH MIGHT BE RELEVANT FOR THE PROJECT

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## NON-TECHNICAL STRENGTHS

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- Willingness to research
- Teamwork mentality
- Ability to handle failure
- Ability to plan
- Problem solving skills

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## WHAT MAKES YOU WANT TO DO THE PROJECT

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- I am eager to learn and stay up to date with new innovations and IT related products. I am a confident, energetic young person, seeking an opportunity to expand my horizons. I don't mind putting in the extra effort and time, until the problem is solved, which also makes work under pressure well. I am able to adapt to different environments, and learn to use new technology, programs, and programming languages well. I prefer to start working earlier than leaving it for last minute; however I can work under pressure as well. I am a hardworking and dedicated student who loves a challenge and works well under pressure.

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## PROJECT EXECUTION

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### DEVELOPMENT METHODOLOGY

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### KEEPING THE CLIENT INFORMED

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### INITIAL IDEAS

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### TECHNOLOGIES

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- HTML and JavaScript for the front end functionality for both the browser and game application as this technology can be wrapped to run on a tablet device.
- For backend functionality we intend to use java or Node.JS
- For data persistence we intend to use PosgrSQL

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## WHAT THE CLIENT WILL RECEIVE AT THE END OF THE PROJECT

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- All source code
- Documentation related to the implementation
- Working implementation
- Unit Testing