

Project Tender

PROJECT NAME: PROJECT STORM.
Client: Dr Linda Marshall and Ms Vreda
Pieterse

GROUP NAME
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1 The Team

1.1 Antonia Michael

1.1.1 Interests

My interests include working with people, helping people, reading, tennis, greek dancing and spending time with family and friends.

1.1.2 Technical Skills

My technical skills include: Java, C++, Html5, css, php, Bootstrap, Javascript, Semantic UI, Sql, php, python, WebGL, Latex, Github, shell script, AngularJS, NodeJS, Microsoft Office, Npm, HandleBars Server, Mongoose, Gemfury and Mocha unit testing.

1.1.3 Past experiences relevant for project

Programming

I have done an internship at a small IT company called Lepsta (Pty)Ltd, where I worked mainly on the front end of their new systems. I was mainly responsible to implement the gui and front end functionality of their email client app called Ridicle, using AngularJS, Python, Semantic UI, and using Brackets as the platform. I also worked on a similar email client app there. I also assisted in implementing a CMS Website for small enterprise, NCC Solutions. In addition, for COS 301 I was chosen to be part of the Infrastructure Integration team to integrate the code given to us from the functional teams. We used NodeJS, RoboMongo, Mongoose, Nodemailer, Npm, Gemfury and HandleBars server for our integration.

Business Analysis

I also worked as a business analyst at Lepsta (Pty)Ltd, where my duties included firstly, requirements management - gathering, defining, analyzing and documenting business and functional requirements and designing a solution based on these requirements. Secondly, communicating requirements to programmers and other stakeholders ensuring that everyone understands what is required for the project to be a success. I also had to develop the business processes to provide a graphical flow of data, indicating the relationship between stakeholders and systems. I had to also design the test cases and

implement the testing. Throughout the process I served as a communication channel, ensuring that all the teams knew exactly what was expected of them, and reported their progress and any concerns to me.

Project Management

At Lepsta (Pty)Ltd I also worked as a Project Manager. I developed a schedule for the project completion, allocating resources to the tasks. I also had to determine resources needed to complete the different phases of the project (i.e. time, money, technologies). I used a Gannt chart to allocate time frames for the different tasks in the project. I used a SCRUM board to keep track of the progress of the different tasks and to let the project needs see a visual representation of their tasks at hand. I had to keep regular communication with management to express the programmers' concerns and progress. It was also my job to develop team spirit and make sure that each member is contributing equally to the projects.

1.1.4 Non technical strengths

My non technical strengths include:

Firstly, I am a hard working, passionate and diligent student, who gives every task I do my full attention, and strive to only deliver good quality work. I work well with teams as I always consider each members view points and I dislike disputes, hence I always feel obliged to deliver more than my share in group projects in order to not let the large group of people that are depending on my efforts down.

Leadership skills -

- 1.) Head of Communications in The School of IT faculty House
- 2.) Selected by the Department of Computer Science to be a Infrastructure Team Leader for the module COS 301 for the implementation of The Buzz System,
- 3.) Was a class Representative for the module, Imperative Programming.

Public speaking and presentation skills - Got chosen as the best overall paper and presentation from our presentation at the 2014 ACEIE Information Science Conference held at The University of Pretoria. Was then selected by UP to present research paper at the 2014 Information Ethics Conference held at The University of Zululand, competing with students from UJ, UP

and other universities. We obtained 2nd place.

Social responsibility skills - Tutored for the Basic Computer Training course (6 sessions) for underprivileged female students eager to pursue IT careers. Organised and ran a Computer Training course for members of the community at UP Mamelodi Campus with a group of 4 other students - 40 hours of community work for JCP community development module in second year

Debutantes Year at school (2010) – Hosted various events/ programmes to raise funds for the Phehela Day and Night Centre and assisted with other similar charities.

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Teaching skills - In addition, the computer literacy courses I have taught, I am currently a Tutor in the Computer Science Department at the University of Pretoria. Other skills: Communication skills, team work skills and people skills.

1.1.5 What makes you want to do the project

I was interested in this project because, after having to do the mini project for most of the first semester, one gets curious to find out what is happening behind the scenes. It is hence interesting to know how the groups are formed using Belbin test results, and how the Pinochio results are used. It would also be a really satisfying feeling to be able to create software that the university will be able to use, to make the "behind the scenes" of the mini project more efficient for the lecturers, and it seems like an interesting challenge.

1.2 Rendani Dau

1.2.1 Interests

My interests include music, video games, hanging out with friends and anything related to Information Technology including but not limited to the latest technology trends and news and how technology can be used to better our everyday lives.

1.2.2 Technical Skills

My technical skills include: Programming skills in Java and C/C++. Web development technologies including HTML, JavaScript/jQuery, CSS, PHP, Bootstrap and NodeJS. Database programming using SQL (MySQL and Microsoft SQL) and Mongo DB. Programming in C# including creating Windows Forms Applications, Advanced use of the .NET framework including linking databases (SQL Server, Microsoft Access, Oracle Database, etc.) to Windows Forms for CRUD functionality, creating Runtime Libraries (DLLs), creating client/server web applications with ASP.NET and creating reports with the SAP Crystal Reports plugin for Visual Studio. Also proficient with the Microsoft Office suite, Latex, XML and related technologies (XSL and DTD).

1.2.3 Past experiences relevant for project

I have successfully completed web development courses including COS 216 and IMY 220 which will allow me to bring the necessary web development techniques to the team. Having also participated in the COS301 Mini project, I believe the insight and experience gained from that will be useful in this project.

1.2.4 Non technical strengths

My non-technical strengths include teamwork and communication skills which were honed by the COS301 Mini Project, thinking on my feet to solve problems and coming up with and voicing ideas.

1.2.5 What makes you want to do the project

Having taken part in the COS 301 mini project, I would like to bring my experience into creating a more efficient way of picking teams which will be beneficial to both the students and lecturers of the module in future. I also think it would be great for myself and my team mates to leave behind a legacy in the Computer Science Department in the form of a fully functional app that can be used in more modules that employ group work in the department.

1.3 Elana Kuun

1.3.1 Interests

1.3.2 Technical Skills

1.3.3 Past experiences relevant for project

1.3.4 None technical strengths

1.3.5 What makes you want to do the project

1.4 Semaka Malapane

1.4.1 Interests

My interests are playing sudoku, cards, puzzles, cooking, reading, shopping and spending time with friends and family.

1.4.2 Technical Skills

My technical skills include: C++, Java, CSS, PHP, HTML, JavaScript, NodeJS, nodeunit, Mongoose, WebGL, Microsoft Office, SQL and XML.

1.4.3 Past experiences relevant for project

I have successfully completed COS 216 (Netcentric Computer Systems) which taught me all the required web development skills required for this project. I also believe that all the other programming modules I have done in the past two and a half years will help me and my team complete this project successfully.

1.4.4 Non technical strengths

My non technical strengths include:

Team work and communication skills - The Software Engineering course offered us a mini project at the beginning of the year where we had to work in multiple different teams with different kinds of people. This gave me the opportunity to learn to work in a team setting and to communicate appropriately.

Public speaking and presentation skills - I participated in public speaking in 2011 and 2012. This taught me not only good speech writing but valuable

presentation skills. I also took part in a computer training course at the UP Mamelodi Campus in 2014 - this gave me the opportunity to better my public speaking and presentation skills.

Social responsibility skills - I tutored a Basic Computer Training course (6 sessions) for underprivileged female students. I organised and ran a Computer Training course for members of the community at UP Mamelodi Campus with a group of 4 other students - 40 hours of community work for JCP community development module in second year.

1.4.5 What makes you want to do the project

The project sounds interesting and challenging. It is something that we will be proud of at the end of the year after having completed it.

1.5 Isabel Nel

1.5.1 Interests

During my past two years of studying Computer Science, I have developed a passion for software development. Finding creative solutions to problems in the form of software is something that definitely falls in my interests. I am also fond of the outdoors, helping others and baking

1.5.2 Technical Skills

My technical skills include: C++, Java, CSS, PHP, JavaScript, XML, HTML, SQL, WebGL, Microsoft Office and NodeJS.

1.5.3 Past experiences relevant for project

I have successfully completed my foundational programming modules and more specialized modules at the University of Pretoria, thus I am capable of producing adequate and usable software. I also participated in the mini-project of COS 301, which made use of the principles which will be used in Project Storm, which will help with the understanding of the project.

1.5.4 None technical strengths

I believe I am a good team player, with that I mean that I am a supportive person when it comes to team work, I respect my other team members and I am good in sharing my ideas and listening to other's ideas. I can take on a leadership position if need be, such as the position I was placed in for the mini-project of COS 301 as a middle level team lead.

1.5.5 What makes you want to do the project

My previous experience with the mini-project in COS 301 is my motivation to do Project Storm. During the mini-project we were asked after each phase to fill in questions to gather information for 'Rocking the boat' and that got me thinking on how things work behind the scenes, how are group members sorted and so forth. Thus it would be interesting for me to be able to assist in the development of the software of how students are divided behind the scenes into groups according to their evaluation and personalities.





