**Roles**

It is sometimes useful to define roles for particular participants, such as Lead Developer, or Technical Designer, or User Interface Designer. It is also possible that roles are changed from week to week, depending on what needs to be done next. Have you defined any specific roles for your project? If so, describe and justify these. If not, describe your process and justify why there are no specific roles.

**Skills and Jobs**

Let us suppose that a group of venture capitalists hears about your project, and is so impressed that they wish to fund you to develop it further for say six months. You will be the manager of a team of 4 people to deliver the project outcomes. What position description would be appropriate? Write 4 position descriptions for people that you would employ to take your project to the next phase. You will need to consider what skills are appropriate, which may include specific technical expertise, team work experience, leadership and management techniques, and innovative thinking.

1. Lead Developer – Roshan
2. Backend Developer – Simon
3. Software Tester – Jo
4. Technical Support/Help Desk – Mason

Lead Developer

A lead developer can provide general design guidance and can also help aid the planning of the product development and can provide feedback to the marketing or sales teams. The lead developer can discuss the CEO managers to make sure that the development team and technologies are selected and are aligned with the business goals of the company. The lead Developer also help by researches new technologies for the team, can help give technical direction for the team. As a lead developer you will need to have great communication skills, outstanding understanding of the product, understanding the business problem of the software. (Reff 1). As a lead developer another one of your main goals is to boost the skills of your team members, this starts right from recruitment and continues to progress with new developers, set some best practices for development for coding, comments or documentation, reduce time needed for production launched by improving process. (Reff 1.2, Reff 1.3). What does it take to be a lead developer you are required to have at least three years of experience in technologies as visual basic, NET, PHP, C#/C++, Microsoft and NET framework development, you will also need to have a firm background in applications programming, you’ll need to have a bachelor’s degree in computer science and a couple of years of proven success as a team leader (Reff 1.4).

Backend Developer

A backend Developer usually responsible for being involved and participate in overall application lifecycle, the main focus of a backend developer is to focus on coding and debugging. The backend developer can define and communicate technical and design requirements. Backend developer can help with provide training and support other team members. While backend developer can learn new technologies and help troubleshoot and debug applications, also keep up to date with current practices. Backend developer can build high quality reusable code that can be used in the future, can also manage technologies to enhance application and follow the new emerging technologies. (Reff 2). The role of a backend developer that they can work front end developers and provide algorithms for user web application element. Backend developers can create functional web applications and increasing their response time and efficiency. (Reff 2.2). To succeed as a backend developer, you should focus on building a high quality and a more efficient program and creating flawless product for the end user experience. Back end developer requirements are that you have a bachelor’s degree in computer programming and computer science, understanding specific languages like Java, PHP and or Python. as a backend developer you will need to have a solid understanding of web development and programming techniques and tools, the ability to work either independent or in a group and to be willing to be seated for over extended periods of hours. (Reff 2.3).

Software Tester

A software tester is to analysis software and systems to reduce the risk and prevent any issues. Software testers are involved in quality assurance stage of a software development and deployment and need to do a manual test to unsure the software that is created by the developers to fit the purpose of any bugs or issues that are removed within the product before it gets deployed to everyday customer. Your role is to complete the creation of the software systems, technical products including defence and healthcare, you will need to familiar or to become familiar using programming and using coding languages. As a software tester your skills you will need to have are, strong verbal and writing communication skills and the ability to cooperate with variety of stakeholders, problem solving skills, working under pressure, focus on detail, expectance technical skills. (Reff 3) To be able to work in either a team or individually, organisational skill and to be able to work towards tight deadlines and need to have a passion for working with technology. (Reff 3.2). Software tester responsibilities are to review software requirements and prepare for testing structure, being able to carry through test on software usability, examine test results of database impacts, errors or bugs and usability. Software tester requirements, you are required to have a bachelor’s degree in computer science, in date knowledge of software test design and testing methodologies, up and running knowledge of test techniques and effective with various software programs, marvellous communication and critical thinking skills and a strong organizational skill and an oriented mindset. (Reff 3.4).

Technical Support / Help Desk

A technical support help desk can help to identify hardware and software solutions, they can also install and configure hardware and software, troubleshooting technical issues, diagnosing and fixing faults and resolving network issues. As technical support help desk you will be required to have degree in computer science or an information technology certification in Microsoft or Linux, you will need experience with remote desktop application and help desk software and to have excellent interpersonal skills. (Reff 4). As a Technical support / help desk you are to have the required skill to be able to, have the ability to learn new software and hardware, be able to listen, analysis technical issues, application support, case notes, data migration and data setting, detail oriented, diagnosing software and hardware, error log, explaining clearly about technical information, identify process improvement, mobile device, networks, patience, web application and web support and troubleshooting. (Reff 4.1). A technical support / help desk responsibility is to provide assistance and support for any issues for computers software and hardware. The help desk can write up training manuals for the users to help them if they get stuck, the technical support help desk help maintain computer systems daily. (Reff 4.2). As a technical support help desk you are required to have degree in either computer science, computing or engineering. (Reff 4.3)

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