**6. Proposed Business model**

**6.1 Required Resources**

simply mean resources that are required for successful development and completion of project. These resources can be capital, people, material, tool, or supplies that are helpful to carry out certain tasks in project.

Without these resources, it is impossible to complete project. In project planning phase, identification of resources that are required for completion of project and how they will be allocated is key element and very important task to do.

In project management, some resources that are required are assigned to each task of project to get job done.

* Human Resources

Human plays an important role in software development process. No matter what size is and how much complexity is there in project, if you want to perform project task in an effective manner, then human resources are very essential. In software industry, people are assigned some organizational positions such as manager, software developer, software testing, engineer, and so on. These positions are according to their skills and specialty.

|  |  |
| --- | --- |
| **Human Role** | **Num of person’s** |
| Project manager | 1 |
| Technical lead | 1 |
| Analyst | 1 |
| Developer | 1 |

* Reusable Software Resources

The reusable resources also known as cost resources are very helpful as they help in reducing overall cost of development. The use of components emphasizes reusability.

This is also termed as Component-Based Software Engineering.Component-based development is oriented on creating reusable software components thus it can be used in the context of different software development lifecycles and architectural styles.

By applying component-based development in the following UML diagrams are developed for each of the architecture view:

 Scenario view - Use Case Diagram

 Process view- State chart Diagram.

 Sequence view- Sequence Diagram.

Google & Facebook Login API

Send grid For Email send API

* Hardware Resources

These are actually material resources that are part of project. This type of resource should be planned before starting development of project otherwise it way causes problems for the project.

For example, if you require certain software elements during performing task and somehow you can’t manage to get them on time, even they could take few weeks to ship from manufacturer and this will cause delay to your project.

1.The desktop or laptop computer : The computer has quickly become the workhorse of almost every business, without which most modern businesses would likely not be able to operate. Whether operating a multi-user workstation, laptop or a desktop, investing in a reliable computer will surely save you from stress and sweat.

2.Wireless routers : Broadband modems are an integral part of any Internet-connected business, but get your hands on a wireless router and you won’t look back at cables again. Not only does a wireless router keep your office connected to the Internet without cables, it also acts as an Internet splitter, meaning all your devices can be connected from anywhere within router range. Not only that, but most modern wireless routers come with built-in firewalls as well as the ability to limit a network to computers you trust, which means more safety for your computer.

3.Network servers : While personal computers are capable of acting as a network server, a dedicated server will give you the advantages of faster CPU (Central Processing Unit), high-performance memory and increased storage capacity. A good network server solution can effectively support your database, email applications and other files, as well as provide comprehensive security and backup options.

**6.2 Estimate of Cost**

* Technical Solution cost

|  |  |  |  |
| --- | --- | --- | --- |
| Phase | Development Cost | Development  Time | Importance of the phase |
| Design | 10,000 – 70,000 | 1-4 weeks | Fixing how the website looks and functions before developing |
| Development | 2,00,000 – 4,50,000 | 2-4 weeks | Coding each feature of website.  Converting design into working website. |
| Maintenance | 4000 – 10,000/ year | life-long | Updating and maintaining website.  Continuous bug-free experience for your users. |

* Human Resource cost

|  |  |  |
| --- | --- | --- |
| **Human Role** | **Cost** |  |
| Project manager |  | 40000 |
| Analyst |  | 9000 |
| Developer |  | 25000 |

* Location and space cost

The location of the developmentagency/developers varies the cost of web application development.

Web development is a very labour-intensive job. The cost of web app development is dependent on how many developers you hire and for how long.

The hiring rate for developers varies a lot depending on the country and continent. Even in the US, there is a vast difference in the salaries of web developers for different states. Therefore it is important to pay attention to the location of development to minimize cost.

Outsourcing web app development can be an effective way to reduce costs. But before deciding, consider other factors such as language and cultural barriers and time zone differences

|  |
| --- |
| Location Cost |
| 30000/Month |

* Publication cost

15000 /Yearly

* Time Frame

The deadline you set has to be accurate. Too little or too much development time increases the web application development cost.It is pretty simple. As you spend more time, you require more resources, and the project cost increases.

But there is another side to it. Giving a very small timeframe to developers can also drastically increase the web application costs. For instance, developing a fully functional progressive web app (PWA) takes around 4-5 months.

If you set a deadline of 3 months, you will need to hire more developers and work them overtime, to get the web application ready. In contrast, giving 7 months will mean spending more resources and unnecessarily complicating the web application. So progressive web app development cost will over-shoot in either case.

Therefore to get the most cost-effective web solution, you need to set appropriate deadlines.