# **Chapter 4 – Feasibility Study**

## **Economic Feasibility**

|  |  |  |
| --- | --- | --- |
| **Type** | **Potential Costs** | **Potential Benefits** |
| **Quantitative** | Hardware upgrades.  Software upgrades.  Software licensing fees.  Data conversion costs. | Reduced data analyzing time.  Reduction in inventory.  Reduction in IT costs. |
| **Qualitative** | User training. | Higher quality products.  Improved customer service.  Reduce the risk of traditional methods.  Increased brand recognition. |

As our application is using Hardware like Processor, Hard Drive, RAM, Camera, Microphone and Speakers sometimes we may need to upgrade our Hardware. For an example we may need to upgrade our 4GB RAM into 8GB RAM in order to run the Android Studio Application faster. We may need to upgrade our Windows OS. As we are upgrading our OS and MS office application, we may need to pay a licensing fee. As we our using Google Forms as our requirement gathering technique, we reduced the data analyzing time. We clearly identified what we need the most to build up this application and listed down them and didn’t add any extra needs. As we are using many open source software, we reduced our IT costs. As some end users may not be familiar with the technology and English language, we planned to do a user training session to our client and selected students. We are planning to improve customer service and give a higher quality product. And as we are using ‘scrum’, we hope to modify it in our way so it will reduce the risk of traditional methods. We hope to partner with influencers to create content in order to increase our brand recognition.

## **Operational Feasibility**

|  |  |
| --- | --- |
| **Operational Issues** | **Support Issues** |
| End users must have a good knowledge in English. | Giving a user manual about all its interfaces. |
| Internet connection is required. | Selected tutors and students will get one-hour training session about the application. |
| Credit / Debit card is required to make the payments. | Selected tutors and students will get a 15mins session about doing online payments in partnership with a selected bank. |
| Should have a suitable PC or a Mobile phone to download and run this application. | End users will provide with user manuals and tutorials. |

When the user starts operating the system the user may come up with several difficulties like ‘not familiar with English language, internet connection problems, how to do online payments and is their PC or Mobile Phone is capable of running this application. For less familiarity with the technology, English language and the minimum requirements needed to run this application, end users will provide with user manuals about all the interfaces and tutorials. For internet connection problems and online payment problems we hope to do a training session.

## **Technical Feasibility**

|  |  |  |
| --- | --- | --- |
| **Technology Issues** | **Solution** | **Market Issues** |
| When entering details to the Login form if PC or Mobile Phone gets off all the entered information will get erased. | Entered information will be saved temporary in the database. | 3rd party database tools are supported. |
| The updating process requires Internet, when updating if the Internet goes down updating process will go down. | The process will be only paused, will not get canceled. So, the user can update later. | 3rd party operating systems are capable of using the application. |
| When doing online payments if the card has expired the user will not be able to make the payments. | The user will be able to contact the bank through this application and ask for a solution. | Capable of running in Android. |
| When in a live video conference if WIFI disabled the user will not be able to attend the class. | Have the recording ability and uploading the recorded video. So, the student can watch it later. |  |

As our application required Internet, if the internet goes down the user will not be able to attend the class and will not be able to update the application. When updating the update will only get paused and not gets cancelled. As this application have recording ability and uploading ability the user can download and watch the recording. If the PC or Mobile Phone gets off when filling the login form our database will always have a temporary backup so the user can continue from where he/she has stopped. When doing online payments as credit/debit cards are needed, if the card has expired the user cannot proceed. So, he/she can contact the bank by using this application and ask for a solution.

## **Organizational Feasibility**

* The tutor must have the ability to train the students to use the application.
* The tutor must encourage and guide the students to do online payments.

## **Outline Budget**

* If DON’T have a PC or a Mobile Phone both the student and the tutor must buy a PC or a Mobile Phone.
* Mobile Phone (Brand new) – Min Rs.20,600 (Samsung Galaxy M01)
* Mobile Phone (Used) – Min Rs.15,000
* Laptop (Brand New) – Min Rs.56,200 (Lenovo IP330)
* Laptop (Used) – Min Rs.26,000
* Desktop Computer (Brand new) – Min Rs.40,000
* Desktop Computer (Used) – Min Rs.24,300
* For Internet Access (using data cards via Mobile Phone).
* Sim Card – Rs.100
* For video call (6 hours) – Rs.100
* For Internet Access (using a Router)

**Dialog 4G**

* Router with connection – Rs.3990
* Package Per Day – 1GB (Any Time) – Rs.40
* Work and learn package per month – 35GB (Any Time) – Rs.495

**SLT Broadband**

* Router with Sim card – Rs.3500
* Package Per Month – 36GB (Day Time) 54GB (Nighttime) – Rs.1490
* If do not have a Credit or Debit card the end user must get it from the relevant bank to do the online payments.
* Credit Card – Mostly given free from the banks, the bank will charge a credit card fee yearly (the fee differs from bank to bank).
* Debit Card – Mostly given free from the banks, if charged that is <=500.

## **Summary**

Our application has costs, benefits like user training, reduced IT costs etc. When operating users may have language, internet problems therefore we’ll have training sessions etc. We’ll have market issues like 3rd-party database tools supported etc. If internet disabled user cannot do many things in this application, so we have solutions like recording etc. Organizationally tutor is responsible for guiding students. Estimated minimum budget for the user is 20000.