**PRELIMINARY ANALYSIS**

**REPORT**

**AUTHORS**

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**Introduction:**

Our team of four has been assigned with developing an application designed to assist EITS with client administration and supporting client activity. The users of this application will select from a list of desired industries, within the industries it provides information about educational courses which they can take and the skills required for them. The administrator can then view and track this information from the system which recorded the users' name, email, number, and activity throughout the application. EITS would like this application to welcome clients to the office and track their attendance and training progress throughout their use on this application and would like the information to be accessible via her computer tablet to easily access and see the data. Our team must look for the necessary hardware and software like a desktop based database application and interface components to be developed for user access which might be from a computer tablet, laptop or PC and for software being a web-based database and windows based software.

**System Request Summary:**

EITS would like a new easily accessed system to track and view attendance, records, and results of the users. This system will need to have a database and GUI built using MySQL and NetBeans to allow EITS to easily view and obtain the necessary information she needs.

All requested features include:

* Welcoming clients to the office and tracking their attendance throughout the app
* Interacting with clients about training options based on the selected industry they desire to look at.
* Keeping a record of the clients' choices training and progress through each visit.
* For the system to store record details for later review, reporting and statistical reporting purposes and for later use to plan future company’s shops work practices.

**Findings:**

**Project Scope**

**Business Requirements:**

* Who was it built for ?: This application was built for EITS
* Goals: To create a new GUI application to allow clients to view and enrol in courses, admins to edit client and caseworker data and to implement and edit courses, and for caseworkers to view client data, attendance and progress.

**Process Requirements:**

The application must be able to allow clients, admins and caseworkers to interact with the GUI in an easy manner while also being connected to the database which in some cases they can modify and interact with it. This will be done through the sign up, client data (Admin), course list (Admin), Unit list (Admin) and Industry List (Admin) pages.

**Feasibility:**

For the project to take place, it must first be deemed technically feasible to develop and economically justifiable. The project must first be checked for not having too many resources before development to ensure the project is worth the investment. We must first check the required hardware, software and technologies to develop this project.

NetBeans, Sourcetree, MySQL, MS Project, and Windows 7,8, or 10 which are all software which is either free to use or the team already has at their disposal so the software and time management tools to develop this project is feasible.

The Hardware to develop this project requires an average system needing no more than 4 Core 2.5Ghz CPU, 4GB of RAM, 100 GB of storage, and a good connection to the internet. The Team already has systems with this level of hardware and more so the hardware to develop this project is feasible.

With the project only requiring a small database and GUI Interface to be developed and connected to each other, it is definitely feasible to construct on time and within budget to what is appropriate for the Project manager.

Some Constraints for the project development could be that a member of the development team has left so some features of the application might be delayed somewhat since the other developers must now take on the work of the team member who has left. This will impact the overall time and cost to develop the application.

Number of pages:

* Login
* Sign Up
* Course list
* Course list (Admin)
* Industry List (Admin)
* Unit List
* Unit List Alternate
* Unit List (Admin)
* Admin Panel (Admin)
* Caseworker Panel (Caseworker)
* Client Data (Admin)
* Client Data (Caseworker)
* Client Progress (Caseworker)
* Client Attendance (Caseworker)
* 2 Thank you and 1 error message pages

**Recommendations:**

Recommendations for going about developing and planning the application is to firstly have easy and effective communication between team members. This would be done through an online chat service, primarily Discord. Discord is a free online chat service which allows multiple people to join in on a call and easily share their screens. This will allow all team members to easily work together and help each other with problems which might arise. Finding and using a quality chart service will improve communication and overall performance of the group leading to a higher quality product.

Another recommendation is that we must be reasonable about what we can accomplish and not try to produce or develop something that just isn't practical. This will just waste time and resources and lead to a failed project. Instead, we must develop an application which is within our time and cost budget and can be done by all team members.

**Time and Cost Estimates:**

For our team to complete this project on time and in budget we will have planned and utilised the necessary tools, programs, hardware and tactics. To do this we would have used programs such as Microsoft Project to plan out our schedules and deadlines for each task and to allocate costs to each task to get an accurate budget which the team must remain in.

Give Cost Estimate:

**Expected Benefits:**

The expected benefits for creating this application is that it will boost student enrolments by allowing them to easily navigate and discover information about the courses and if it will be a good fit for them overall increasing profits for EITS.

**ER Diagram (Or Equivalent):**

**Screen Designs:**