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| Feasibility Report Submission | | |
| **Student name: Muhammad kemal** | | |
| **Student ID: BDSE07-0922-084/STTB** | | |
| **Centre name: EduClaaS** | | |
| **Mentor: Arvinder Kaur** | | |
| **Unit:** 13 Computing Research Project | | |
| **Date: 04th Sep 2023** | | |
| **Project TITLE: "Enhancing Features and Revitalizing Jumpstart Website to Fit Post-COVID-19 User Preferences"** | | |
| Section One: explain feasibility study and type of feasibility study | | |
| **Feasibility Study**  Feasibility study is an important step to assess whether a planned project or business is feasible or not. This study helps us understand whether the business idea or project can actually be successful or not. This is done by examining various aspects, such as technical, economic, operational, schedule, and legal.  **Type of feasibility Study**   1. **Technical Feasibility**   This is the initial step in evaluating a project. This study assesses the technical aspects of the project, such as whether the required technology is available or accessible, whether there are adequate skills and knowledge to execute the project, and whether the project can meet the required technical specifications.   1. **Economic Feasibility**   This study deals with finances. It includes calculating the initial costs, ongoing expenditures, and revenue estimates. The goal is to assess whether the project will generate enough profit to justify the required investment. Metrics like ROI (Return on Investment), NPV (Net Present Value), and payback period are used to evaluate the economic aspects of the project.   1. **Operational Feasibility**   This study focuses on how the project will run within the company's operations. It involves considerations of whether the project will disrupt existing processes or if there are operational challenges that need to be addressed.   1. **Legal Feasibility**   This study evaluates whether the project will comply with all relevant laws and regulations. It involves checking for any required permits, legal risks associated with the project, and compliance with legal provisions.   1. **Scheduling Feasibility**   This aspect concerns the project's timeline. The study assesses whether the project can be completed within the desired schedule. Identifying potential delays and appropriate planning are crucial elements of this study.   1. **Market Feasibility Study**   This assesses whether there is a sufficiently large and viable market for the product or service that the project aims to offer. It includes market analysis, identifying the target market, and assessing competition in the market.   1. **Environmental Feasibility Study**   This evaluates the environmental impact of the project. It involves identifying potential negative impacts, waste management, and compliance with environmental regulations.   1. **Resource Feasibility Study**   This examines the availability of resources required to execute the project, such as the availability of a skilled workforce, a stable supply of raw materials, and necessary equipment. | | |
| **Section Two: Feasibility study Check List** | | |
| **technical considerations**  **Technical Infrastructure Assessment Hardware and Software Evaluation**   * the project manager at NexTech Solutions, it is vital to collaborate closely with Jumstart Company, to conduct a comprehensive examination of their existing hardware and software components. The primary objective is to determine whether the current configuration is in harmony with the project's specifications and objectives. If any disparities are identified, initiate discussions with Jumstart to explore potential upgrades or fresh installations that may be required to ensure seamless project execution. * Network Capacity Analysis: One of our top priorities is to ensure that Jumstart network infrastructure possesses the necessary capacity to accommodate the anticipated data traffic and fulfill the connectivity requirements of our project. Moreover, if the project necessitates specialized software or tools for its successful implementation, it is essential to coordinate with Jumstart to verify their accessibility within the current setup or to outline a procurement strategy for their acquisition, installation, and seamless integration.   **Market Survey**   * Target Market Identification: The first step is to identify the target market that suits the planned business website model. We need to determine the demographic and behavioral characteristics of the most suitable customer groups. * Competitive Analysis: Next, we have to analyze competitors in the same or similar industry. This includes assessing competitors' strengths and weaknesses, as well as how they approach the market. * Trends and Forecasts: Conduct market research to understand existing trends and forecast industry growth. Considering how this trend can affect the acceptance of our website business model. * Surveys and Interviews: To gain a deeper understanding of customer needs, conduct surveys and interviews with potential users. This can help us optimize the most desired features and functions. * Pricing Strategy (Pricing Strategy): Determine a pricing strategy that is competitive and appropriate to the target market. This also includes considering revenue models, such as subscriptions or advertising.   **Operational Feasibility Study**   * Resource Analysis: identify the resources needed to operate the website, including manpower, technical infrastructure and software. * Labor Availability: Check the availability of labor with the required skills, or if additional training is required. * Operational Processes: Draw and analyze the required operational processes, from content management to customer support and maintenance. * Contingency Plan : Plan a contingency strategy to deal with potential operational disruptions, such as server outages or sudden increases in traffic. * Security and Compliance: Ensure the website complies with all regulations regarding data privacy and information security. Have the necessary security measures in place. * Operational Risk Management: identification of operational risks such as downtime and implementing solutions to reduce these risks. | | |
| **Section Three: Step to conduct feasibility study** | | |
| **Economic Feasibility – Cost & Benefit Analysis**  **Cost Analysis**   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | List of costs needed | Description of activity | 2023 | 2024 | 2025 | Total | | Requirement gathering | Conducting requirement-gathering sessions with stakeholders | $500 | - | - | $500 | | Hardware | Purchase the necessary hardware for the software system | $1000 | - | - | $1000 | | Software | For operating this system | $2000 | - | - | $2000 | | Hosting | Setting up the application's hosting infrastructure with Niagahoster | $180 | $180 | $180 | $540 | | Maintenance | Ongoing support and maintenance for software Meals on Wheels | $3.180 | $3339 | $3339 | 9.858 | | Design Implementation | Designing and implementing the user interface and system functionalities for Meals on Wheels | $1000 | $1000 | $1000 | 3000 | | Human resource | Hire and manage the development team and other personnel as required | $9300 | $9300 | $9300 | 27900 | | Marginal/urgent cost | Costs that may be incurred during the project that are unexpectedly high or urgent | $3.915 | $4074 | $4074 | 12.063 | | Total cost | Sum of all the costs mentioned above | 23.098 |  |  | 52.821 |  * **Benefit analysis**  |  |  |  | | --- | --- | --- | | Benefit gotten |  | Const / Month | | Direct benefit | Yearly Increase in Sales: $5282 (10% of $52.821), Now is $ | $58.101 | | Indirect benefit | Overall performance on the website now 5.183 | 5.183 |  * **Return in investment**   ROI = 19.8%  **Hardware and Software requirements**   1. Hardware Requirements  |  |  |  |  | | --- | --- | --- | --- | | **No** | **Hardware** | | | | **Type** | **Server** | **Client** | | 1 | Processor | Intel Core i5 atau AMD Ryzen 5. | Intel Pentium G4400s | | 2 | Memory | 8GB RAM DDR4 | 4 GB | | 3 | Hard Drive | 1TB | 120GB | | 4 | SSD | SSD SATA 240GB | Sata | | 5 | Network | Gigabit Network | Gigabit Network | | 6 | Monitor | Asus TUF VG328H1B 31.5" | Monitor 24” | | 7 | PSU | Prime Titanium TX-1000 - 500W 80+ Titanium Certified | Standard PSU | | 8 | Keyboard & Mouse | USB Mouse Keyboard Standart | USB Mouse Keyboard standart |  1. Software Requirements  |  |  |  | | --- | --- | --- | | **No** | **Software** | **Functionality** | | 1 | Windows 10 / Windows 11 | Operating System | | 2 | CMS WordPress | Web Creation | | 3 | Google Chrome, Mozilla Firefox, etc | Web Browser | | | |
| **Comments and agreement from tutor:** | | |
| I confirm that the project is not work which has been or will be submitted for another qualification and is appropriate**.** | | |
| **Agreed:** | **Name:** | **Date:23-Feb 2023** |
| **Comments and agreement from project proposal checker (if applicable):** | | |
| I confirm that the project is appropriate. | | |
| **Agreed:** | **Name:** | **Date: 04th Sep 2023** |