Electronic Hub Solution

**Project Proposal**



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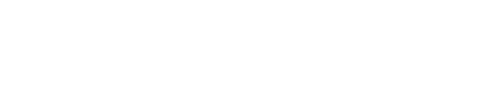
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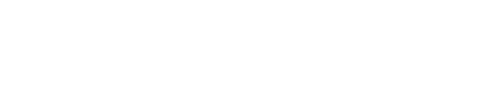
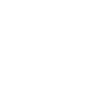
**Campus Name,**  Riphah International College, Muslim Town Campus [ th December,2023]



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| --- | --- | --- | --- | --- | --- | --- | --- |
| Project ID  *(for office use)* | | |  | | | | |
| Title of Project | | | Electronic Hub Solution | | | | |
| Type of project | | | Industrial | | | | |
| Nature of project | | | **D**evelopment | | | | |
| Area of specialization/ Field | | | Web Development | | | | |
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| **Declaration:** FYP group members have cleared all prerequisites courses For FYP-I as per their degree requirements.    **Supervisor Name and Signatures: Principal:**    \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | | | | | | | |

|  |
| --- |
| Plagiarism Free Certificate  This is to certify that, I am ZOHAIB ALI S/D/o JAVEED IQBAL, group leader of FYP under registration no RIC/\_AF22LHA1153 at Computer Science Department, Riphah International College Lahore. I declare that my FYP proposal is checked by my supervisor and the similarity index is 8% that is less than 20%, an acceptable limit by HEC. Report is attached herewith as Appendix A.  **Date:** \_\_/\_\_/\_\_\_\_ **Name of Group Leader:** \_ZOHAIB ALI\_\_\_\_\_\_\_\_\_\_**Signature:** \_\_\_\_\_\_\_\_\_\_\_\_  **Name of Supervisor:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Name of Principal:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **Signature:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |

**Project Registration**



**ABSTRACT**

The "Electronic Hub Solution" is an innovative endeavor aimed at revolutionizing the academic landscape by providing a comprehensive and user-centric digital platform. This project seeks to create a centralized hub that seamlessly integrates academic, administrative, and collaborative functionalities, catering to the diverse needs of students, faculty, and staff within the university ecosystem. Leveraging modern web development technologies, the Electronic Hub will offer intuitive interfaces, efficient information management, and collaborative tools. The key objectives include enhancing user experience, streamlining communication, and fostering a dynamic digital environment. Through strategic planning, robust development methodologies, and responsive design, this project aspires to contribute to the advancement of educational technology and the overall efficiency of academic institutions. The success of the Electronic Hub Solution rests on effective collaboration with stakeholders, adherence to best practices in web development, and a commitment to addressing potential challenges in the pursuit of an optimal digital education experience. Table of Contents

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**1. Introduction**

Electronic Hub Solution is an innovative university project aimed at creating a centralized platform for managing and optimizing electronic devices within a smart ecosystem. This project seeks to streamline connectivity, enhance user experience, and promote efficient electronic resource utilization.

#### **2. Objective**

"ELECTRONIC HUB SOLUTION aims to be a comprehensive online platform, offering a diverse range of electronic products and solutions. Our objective is to provide a user-friendly interface, seamless transactions, and a hub for information and innovation in the electronics industry.".

#### **3. Problem Description**

In the current market, accessing a centralized platform for electronic products and solutions is challenging. Customers often face difficulties in finding reliable information, comparing products, and making seamless transactions. ELECTRONIC HUB SOLUTION seeks to address these challenges by creating a one-stop digital hub, streamlining the process of discovering, comparing, and acquiring a wide array of electronic products and solutions.

#### **4. Methodology**

This he methodology for ELECTRONIC HUB SOLUTION involves in-depth market research to understand user needs. We prioritize user feedback in iterative design phases, selecting robust technologies for secure development. Rigorous testing ensures a reliable platform, and post-launch, continuous improvement and maintenance guarantee a seamless electronic product hub. Regular performance evaluations optimize user experience and uphold the platform's efficiency.

#### **5. Project Scope**

#### Requirement Gathering.

#### Security and Compliance.

#### User Feedback and Iteration.

#### Development and Testing.

#### **6. Feasibility Study**

#### The feasibility study for ELECTRONIC HUB SOLUTION assesses the viability of the project, examining market demand, technological feasibility, and financial considerations. Initial findings indicate a strong potential for success, supported by a clear user need, available technology, and a sound financial plan.

#### **7. Solution Application Areas**

The ELECTRONIC HUB SOLUTION is designed to address the growing demand for a centralized online platform in the electronic products market, providing users with a one-stop-shop for diverse electronic goods and solutions. Its application extends to enhancing user convenience in product discovery, comparison, and secure transactions while serving as an informative hub for industry trends and advancements.

**8. Requirements**

##### "Diverse products, secure transactions, user-friendly interface, informative content, and scalability.

##### 8.1. Hardware Requirements

* Processor:
* Hard Disk:
* RAM:

##### 8.2. Software Requirements

* Operating System:
* Browser:
* Visual Studio Code
* Local host

**8.3. Stakeholders**

The Electronic Hub Solution engages two primary stakeholders: end users (students, faculty, and staff) and university administration. User feedback is vital for optimization, while administrative support ensures project alignment with institutional goals. Secondary stakeholders include the IT department, external service providers, and regulatory authorities. Clear communication and collaboration with these stakeholders are paramount for project success.

**9. Tools/Technology**

The Electronic Hub Solution will leverage modern web development technologies:

* + 1. HTML
    2. CSS (Cascading Style Sheet)
    3. JS (JavaScript)
    4. MySQL
    5. PHP

#### **10. Expertise of the Team Members**

#### The Electronic Hub Solution will leverage modern web development technologies, including HTML, CSS, JavaScript, and a robust backend framework, to ensure a seamless and feature-rich user experience.

**11. Time frame**

Example of time plain:

Table1.1

|  |  |  |
| --- | --- | --- |
| **Task name** | **Duration** | **Date** |
| Proposal | 6 days | 1-7 Dec 2023 |
| planning | 2 days | 9-10 Dec 2023 |
| front end execution | 6 days | 11-16 Dec 2023 |

#### **12. Risks & Issues**

The project faces potential technical challenges that may arise during implementation, requiring agile problem-solving. Additionally, user adoption resistance poses a risk, necessitating effective change management strategies for successful integration.

* Risks: Unanticipated technical hurdles may arise, impacting the smooth implementation of the Electronic Hub Solution. User resistance to change could pose a risk, emphasizing the need for effective change management. Adequate contingency plans will be crucial to mitigate potential project delays or disruptions.
* Issues: Possible issues for the Electronic Hub Solution project include communication gaps among team members, unforeseen changes in project requirements, and potential delays due to external dependencies, emphasizing the importance of proactive communication and flexible project management.

Table1.2

|  |  |  |  |
| --- | --- | --- | --- |
|  |  | **Project Risks** |  |
|  | **Risk** | **Details** | **Likelihood** |
| Technical | Challenges | Unforeseen technical challenges during implementation | High |
| User | Adoption | Potential Resistance to change from users and stakeholders. | Low |
| Dependency | Management | Delays due to externa Management dependencies and third-party services. | Medium |

Table1.3

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  |  | **Project Issues** |  |  |
|  | **Issue** | **Details** |  | **Impact** |
| Communication | Gap | Communication gaps among team members. | Low |  |
| Requirements | Changes | Unforeseen changes in project requirements | High |  |

#### **13. Milestones**

#### Key milestones for the Electronic Hub Solution project include the completion of system architecture design, successful implementation of core features, thorough testing and quality assurance, seamless deployment, and post-launch evaluation and refinement.

#### **14. References**

These are the following references of this project as follows:

* Website:“W3school”URL(https://www.w3schools.com/html/html\_formatting.asp).
* Webpage: “Bootstrap” URL (https://getbootstrap.com/docs/5.3/getting-started/webpack/).
* Online Video: Code with Harry & Yahoo Baba.
* Online video of Web Development