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| **Bangabandhu Sheikh Mujibur Rahman Science and Technology University**  **Department of Computer Science and Engineering** | | |
| **Software Development Project Proposal** | | |
| Project Title: **Electro Solutions** (Electronics E-commerce platform**)** | | Type: web based |
| Student Information:   |  |  | | --- | --- | | Name | Md. Anamul Haque | | Id No. | 20CSE029 | | Session | 2020-21 | | Supervisor Information:   |  |  | | --- | --- | | Name | **Md. Ferdous** | | Designation | **Lecturer** | | |
| Co-Supervisor Information (If any):   |  |  | | --- | --- | | Name |  | | Designation |  | | |
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| **Introduction:** (Should include Situation/Problem/Opportunity)  Electro Solutions is a modern and user-friendly online shop designed to provide a seamless experience for purchasing electronic products. The platform offers a wide range of gadgets and components, including laptops, desktops, mobile phones, camera accessories, and more. With intuitive navigation, real-time search, secure checkout, payment gateway, admin dashboard, and responsive design, Electro Solutions aims to be a one-stop destination for tech enthusiasts and general consumers alike. | | |
| **Goals/Statement of Purposes:** (Include the purpose of implementing your project)  The purpose of Electro Solutions is to provide a fast, secure, and user-friendly online platform for buying and selling electronic products. The project aims to simplify product browsing, improve customer experience, and ensure smooth transactions through secure payment integration and responsive design. | | |
| **Deliverables/Objectives:** (Should include the quantifiable goods or services that must be provided upon the completion of a project)   * A fully functional e-commerce website for electronic products. * User authentication system with login, registration, and role-based access. * Admin dashboard to manage products, users, and orders. * Secure payment gateway integration (e.g. sslcommerz). * Responsive UI for mobile, tablet, and desktop. * Real-time category filtering system * Order history and invoice generation for users. | | |
| **Success Criteria/ Highlight the Benefits:** (Should include what you will improve/reduce/increase)   * Improved customer convenience through 24/7 online access to electronic products. * Increased sales opportunities with a wider digital reach. * Reduced manual work through automated product and order management. * Enhanced user experience with fast, responsive, and secure transactions | | |
| Methods/Approach: (Should include process model,….etc)  we followed a structured and modular development approach. The project was built using modern web technologies, and the development process was guided by the Agile Model to allow iterative improvement and continuous feedback. | | |
| Technology Stack/ Resources: (Should include the resources you will use to implement the system)  **Technology language:** React.js, Tailwind CSS, React Router, Node.js, Express.js, MongoDB, Firebase, Firebase Authentication, SSLCommerz,  **Tools**: Git, GitHub, Visual Studio Code, Vercel , Netlify, firebase. | | |
| Risks and Dependencies: (Should include the possible limitations/challenges)  **Risks:** technical issues, bugs, limited resources, scope changes,data/security risks, infrastructure outages  **Dependencies**: third-party services, other teams’ tasks, hardware/software availability, data access, environment setup delays | | |
| . . . . .. . . . . . .. . . . . . . . . . . . .  Supervisor Signature and Seal  **Signature of the Board Members: (Use for presentation’s Board)**  1)... . . . . . . . . . .2)- - - - - - -- - - - -3)- - - -- -- - - -- - -4) - -- - - - - - - -  Comment: i) Accept ii) Conditional Accept iii) Not Accept  Recommend for Project Exhibition: Yes / No | | |