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Synopsis

On

Notes Manager using Node.js

SUBMITTED BY -

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UNDER THE GUIDANANCE

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SAVITRIBAI PHULE PUNE UNIVERSITY
MASTER IN COMPUTER APPLICATION



Dr. Vithalrao Vikhe Patil Foundation's
INSTITUTE OF BUSINESS MANAGEMENT AND RURAL DEVELOPMENT (IBMRD)
AHMEDNAGAR

For the year
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1.	Name of the Project	Notes Manager using Node.js
2.	Objective / Vision	The project aims to provide a robust platform for performing CRUD (Create, Read, Update, Delete) operations with user authentication.
3.	Users of the System	Admin, User
4.	Functional Requirements	<p>User Registration: Allow users to create accounts with unique usernames and passwords.</p> <p>User Authentication: Implement secure login functionality to authenticate users.</p> <p>CRUD Operations: Enable users to create, read, update, and delete data within the system.</p> <p>Access Control: Define user roles and permissions to restrict access to certain functionalities.</p> <p>Data Validation: Validate user input to ensure data integrity and prevent errors.</p> <p>Error Handling: Display informative error messages for user input and system errors.</p> <p>Responsive Design: Ensure the user interface is responsive and accessible across various devices.</p>
5.	Non-functional requirements (At least Four)	<p>Security: Implement secure password hashing, data encryption, and protection against common web vulnerabilities.</p> <p>Performance: Optimize system performance to handle concurrent user requests efficiently.</p> <p>Scalability: Design the system to accommodate future growth and increasing user loads.</p> <p>Usability: Provide an intuitive user interface with clear navigation and informative feedback.</p>
6.	Optional features	Performance Optimization:

7.	User Interface Priorities	<p>Intuitive Design: Prioritize simplicity and ease of use in the user interface.</p> <p>Responsive Layout: Ensure the interface adapts seamlessly to different screen sizes and devices.</p> <p>Clear Navigation: Provide clear menus and navigation paths for users to find desired functionalities.</p> <p>Informative Feedback: Display informative messages and alerts to guide users through actions and errors.</p>
8.	Reports	-
9.	Other Important Issues	<p>Application must be highly customizable and user friendly.</p> <p>Security should be kept a high priority issue.</p>
10.	Team Size	Individual
11.	Technologies to be Used	<p>Node.js for server-side development</p> <p>MongoDB for database storage</p> <p>HTML, CSS, and Handlebars for front-end development</p> <p>Docker for containerization</p> <p>NPM for package management</p> <p>Amazon EC2 for hosting the application</p>
12.	Tools to be Used	<p>Git for version control</p> <p>IDE (Integrated Development Environment) such as Visual Studio Code</p> <p>Postman for API testing</p> <p>Continuous Integration/Continuous Deployment (CI/CD) : GitHub Actions</p>