



COLLEGE CODE: 9623

**COLLEGE NAME: AMRITA COLLEGE OF ENGINEERING AND
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Completed the project named as Phase-3 TECHNOLOGY PROJECT

NAME: IBM-FE-Dynamic Image Slider

SUBMITTED BY,

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Phase 3 – MVP Implementation

Phase Overview

- Objective:
- To implement the core functionalities of the Dynamic Image Slider, ensuring a working prototype that demonstrates essential features and stable performance.

Key Activities

- • Project Setup
- • Core Features Implementation
- • Data Storage (Local State / Database)
- • Testing Core Features
- • Version Control (GitHub)

Project Setup

- • Created project folder structure
- • Configured development environment (VS Code, Node.js)
- • Initialized Git repository for version control
- • Installed necessary libraries and dependencies

Core Features Implementation

- • Developed dynamic image transition logic
- • Implemented navigation controls (Next, Previous, Auto-play)
- • Added functionality to upload and remove images
- • Enabled adjustable transition timing

Data Storage (Local State / Database)

- • Used Local Storage for saving user image preferences
- • Integrated basic database (Firestore/MongoDB) for image metadata
- • Ensured persistent data between sessions

Testing Core Features

- • Performed manual and automated testing on core functions
- • Verified smooth transitions and responsive layout
- • Debugged image upload and transition issues
- • Ensured slider worked across browsers

Version Control (GitHub)

- • Created GitHub repository for collaboration
- • Regular commits after each feature completion
- • Used branches for new feature additions
- • Maintained project backup and version tracking

Tools & Technologies Used

- Frontend: HTML5, CSS3, JavaScript
- Backend: Node.js / Express (if applicable)
- Database: Firebase / MongoDB
- Version Control: GitHub
- IDE: Visual Studio Code

Results & Outcomes

- • Functional MVP of Dynamic Image Slider developed successfully
- • Core transitions and navigation features operational
- • Application ready for enhancement and deployment phase

Challenges Faced

- • Handling image load time optimization
- • Maintaining consistent transitions across devices
- • Debugging asynchronous image loading
- • Managing repository synchronization

Conclusion & Next Steps

- • Completed MVP Implementation on schedule
- • Stable version ready for UI/UX improvements
- • Next phase: Enhancements & Deployment (Phase 4)
- Thank You!