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DATE:06-10-2025

Completed the project named as Phase-3 TECHNOLOGY PROJECT

**NAME: IBM-FE-Dynamic Image Slider** 

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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 (Firebase/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!