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Completed the project named as Phase_01_ DynamicImageSlider
NAME : Dynamic Image Slider

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Why do we need a Dynamic Image Slider?

- - Enhances user experience on websites and apps
- - Showcases multiple images in limited space
- - Attracts attention with smooth transitions
- - Useful for portfolios, e-commerce, and presentations

Introduction

- - Visual content is more engaging than static text
- - Websites/apps need dynamic ways to display images
- - Existing solutions may be too complex or rigid
- - Our project: a simple, customizable Dynamic Image Slider

Problem Statement (1)

- - Static images fail to grab user attention
- - Manual scrolling interrupts user flow
- - Many sliders are heavy and slow to load
- - Need: lightweight, responsive, user-friendly slider

Problem Statement (2)

- - Designers: want easy customization of images & effects
- - Developers: need reusable, modular code
- - Businesses: want engaging product displays
- - Solution: a fast, responsive slider adaptable for all users

Primary Users

- - Web developers & designers
- - E-commerce platforms
- - Portfolio creators (photographers, artists)
- - Educational or business presentations

Users and Stakeholders (1)

- - Users: individuals, businesses, developers
- - Development Team: designers, front-end engineers, testers
- - Clients: companies needing engaging websites
- - Investors: interested in user engagement & performance

Users and Stakeholders (2)

- - "As a photographer, I want my portfolio images to auto-slide."
- - "As a web developer, I want a slider that is responsive and easy to integrate."
- - "As a business owner, I want customers to see multiple products quickly."

User Stories

- - "As a user, I want images to slide automatically with smooth effects."
- - "As a user, I want to manually control the slider with arrows or dots."
- - "As a user, I want the slider to adapt on mobile and desktop screens."

MVP Features (1)

- - Auto-play slideshow with customizable speed
- - Manual navigation (next/prev buttons, dots)
- - Responsive design for all devices
- - Lightweight and fast loading

MVP Features (2)

- - Support for multiple image formats
- - Transition effects (fade, slide, zoom)
- - Pause on hover feature
- - Easy integration with HTML/CSS/JS

Wireframes (Visual Idea)

- - Home Screen: Slider at top with navigation arrows
- - Slide Layout: Full-width image with caption overlay
- - Controls: Left/right arrows + dots navigation at bottom
- - Responsive Design: Adjusts seamlessly for mobile

API Endpoint List (Sample)

- - GET /images → Retrieve image list
- - POST /images → Upload a new image
- - DELETE /images/{id} → Remove an image
- - GET /settings → Fetch slider configuration (speed, effects)

Acceptance Criteria

- - Slider must auto-play with smooth transitions
- - Users can pause and navigate manually
- - Works on desktop and mobile without layout issues
- - Loads quickly without performance lag

Conclusion

- - Dynamic Image Slider: enhances engagement with visual interactivity
- - Lightweight, customizable, and responsive
- - Suitable for portfolios, e-commerce, and business sites
- - Next steps: add advanced features (video support, captions, animations)