

Report GS

Internship Report – Full Stack Web Developer Intern

Company: Unified Mentor

Intern: Pravin Kumar

Role: Full Stack Web Developer Intern

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1. Executive Summary

During my 3-month internship at Unified Mentor as a Full Stack Web Developer Intern, I worked on four key projects that enhanced my skills in frontend development, backend integration, and UI/UX design. The projects included:

- A React.js-based Personal Portfolio (showcasing my work).
- A Money Tracker Web App (expense management).
- A Travel Slider Gallery (interactive image carousel).

- A **TODO List App** (task management with LocalStorage).

This report details my **contributions, challenges, and key takeaways** from the internship.

2. Internship Overview

Objectives

- Gain hands-on experience in **full-stack web development**.
- Implement **responsive and interactive web applications**.
- Learn **best practices in React.js, JavaScript, and CSS**.
- Work with **real-world deployment** (GitHub Pages, Netlify).

Mentorship & Guidance

- Received mentorship from **senior developers at Unified Mentor**.
 - Conducted **weekly code reviews & feedback sessions**.
 - Improved debugging and optimization techniques.
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3. Projects Completed

Project 1: Personal Portfolio (React.js)

Objective

To create a **professional, responsive portfolio** showcasing my skills, projects, and contact details.

Key Features

Dark/Light Mode Toggle (Context API)
Animated UI (Framer Motion)
Project Filtering System (React Hooks)
SEO Optimization (React Helmet)
Contact Form with EmailJS

Technologies Used

- **Frontend:** React.js, CSS Modules
- **Animation:** Framer Motion
- **Deployment:** GitHub Pages

Impact

- Improved **visibility to recruiters and clients.**
 - Demonstrated **React.js proficiency and UI/UX skills.**
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Project 2: Money Tracker Web Application

Objective

A **web-based expense tracker** to log daily expenditures with category-wise breakdowns.

Key Features

Add/Delete Expenses

Category Filtering (Food, Rent, Transport, etc.)

Total Expenditure Calculator

Responsive Table Layout

Technologies Used

- **Frontend:** HTML, CSS, JavaScript
- **Data Handling:** Local Storage (Future: Firebase)

Impact

- Practical tool for **personal finance management.**
 - Learned **DOM manipulation & dynamic table rendering.**
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Project 3: Travel Slider Gallery

Objective

An **interactive image slider** showcasing beautiful travel destinations.

Key Features

Auto-Sliding Carousel (5s interval)

Manual Navigation Controls (Next/Prev buttons)

Mobile-Responsive Design

Hover Pause Functionality

Technologies Used

- **Frontend:** HTML, CSS, JavaScript
- **Animation:** CSS Transitions

Impact

- Improved **UI interactivity & event handling skills**.
 - Used in **Unified Mentor's frontend demo projects**.
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Project 4: TODO List App

Objective

A task management app with **completed tasks** segregation.

Key Features

Add/Delete Tasks

Mark Tasks as Complete

Persistent Storage (Local Storage)

Responsive Design

Technologies Used

- **Frontend:** HTML, CSS, JavaScript
- **State Management:** Vanilla JS

Impact

- Practical **CRUD operations** implementation.
 - Enhanced **JavaScript logic & LocalStorage usage**.
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4. Technologies & Tools Used

Category	Technologies
Frontend	React.js, HTML5, CSS3, JavaScript (ES6+)
Styling	CSS Modules, Flexbox, Grid
Animation	Framer Motion, CSS Transitions
Deployment	GitHub Pages, Netlify
Version Control	Git, GitHub

5. Key Learnings & Challenges

Key Learnings

React.js Best Practices (Hooks, Context API)
Responsive Design Techniques (Media Queries, Mobile-First Approach)
Debugging & Performance Optimization
Git & Collaborative Development

Challenges Faced

State Management in React → Solved using `useReducer` & Context API.
Cross-Browser Compatibility → Fixed with `CSS prefixes` & `polyfills`.
Deployment Issues on GitHub Pages → Resolved via `correct homepage config`.

6. Performance & Impact

- All projects were successfully deployed and are live.
- Code quality improved through mentor feedback.
- Enhanced problem-solving skills in JavaScript & React.

7. Future Improvements

- **Integrate Firebase** in Money Tracker for cloud storage.
 - **Add User Authentication** in TODO List App.
 - **Convert Travel Slider to React** for better scalability.
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8. Conclusion & Acknowledgements

This internship **significantly improved my full-stack development skills**. I am grateful to **Unified Mentor** for providing this opportunity and guiding me through real-world projects.

Next Steps:

- Explore **backend technologies (Node.js, MongoDB)**.
- Contribute to **open-source projects**.

Thank you,
Pravin Kumar
Full Stack Web Developer Intern
Unified Mentor