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I am submitting a comprehensive and detailed report of the work activities, technical implementations, learning progress, and documentation tasks completed during my recent development period. This report provides an in-depth overview of my contributions, skills practiced, and knowledge gained across frontend development, UI engineering, and supporting technical domains.

1. Introduction

During this period, my primary focus was on **frontend web development**, particularly using **React JS with Vite, HTML, CSS, and JavaScript**, along with strengthening my understanding of modern UI design practices and documentation standards. I worked on real-time project interfaces, recreated government-style website layouts, and continuously improved my coding structure, styling consistency, and responsiveness.

The screenshot shows a web browser displaying the AP RERA (Andhra Pradesh Real Estate Regulatory Authority) website. The URL in the address bar is localhost:5173/apreat. The page title is "AP RERA" and the subtitle is "ANDHRA PRADESH REAL ESTATE REGULATORY AUTHORITY". The top navigation menu includes links for HOME, ABOUT US, APREAT, NOTIFICATIONS, REGISTRATION, REPORTS, REGISTERED, JUDGEMENTS / ORDERS, KNOWLEDGE HUB, and LOGIN. A red button labeled "SEARCH RERA PROJECTS" is also visible. The main content area displays three tables: 1. CHAIRPERSON: Shows one record with S.No. 1, Designation as CHAIRPERSON, Name as HONBLE JUSTICE SRI M. GANGARAO, and a photo placeholder labeled "Chairperson". 2. MEMBERS: Shows one record with S.No. 1, Designation as JUDICIAL MEMBER, Name as SRI RAMACHANDRA REDDY MANDALAPU, and a photo placeholder labeled "Ramachandra Reddy Sir". 3. REGISTRAR: An empty table with columns for S.No., Designation, Name, Mobile Number, Email ID, and Photo. The bottom of the page features a footer with various icons and the time 18:09.

2. AP RERA Website Frontend Development

2.1 Overview

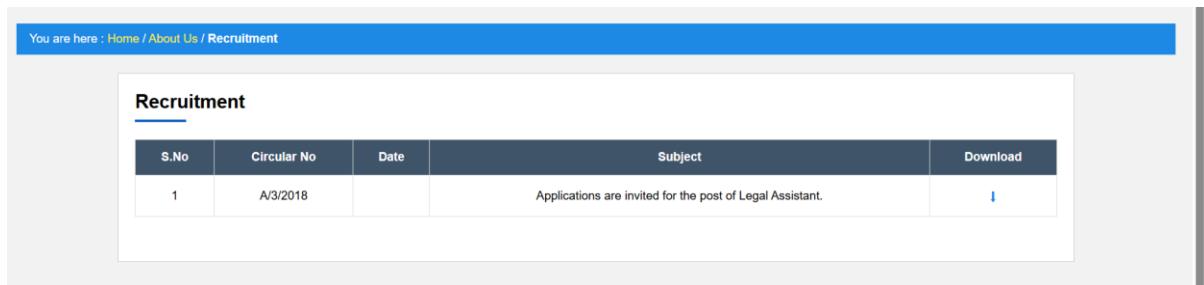
A major portion of my work involved developing and enhancing frontend components for the **AP RERA (Andhra Pradesh Real Estate Regulatory Authority) website**. The objective was to accurately replicate the existing UI design using modern frontend technologies while maintaining clarity, accessibility, and structured code organization.

2.2 Recruitment Page Development

I successfully designed and implemented the **Recruitment page UI** using **React-Vite** and **CSS**. This page includes:

- Breadcrumb navigation showing the page hierarchy (Home / About Us / Recruitment)
- Page heading with underline styling for visual clarity
- Structured table layout displaying recruitment circular details
- Columns such as Serial Number, Circular Number, Date, Subject, and Download option
- Download icon aligned with official government portal design
- Consistent color themes matching the APRERA website standards

Special attention was given to spacing, font sizes, table borders, and alignment to ensure the UI closely resembles the original design.



2.3 Navigation and Layout Work

I worked on:

- Navigation bar layout with dropdown menus
- Header sections with logo and action buttons
- Footer layout including policy links, copyright information, and social media icons
- Page-level containers for consistent alignment across screens

3. React JS Implementation Details

3.1 React File Structure

I followed a clean and modular file structure:

- Components separated by functionality
- CSS files imported individually for each component
- Reusable JSX components to avoid redundancy

3.2 React Concepts Practiced

Throughout the development process, I practiced and reinforced:

- Functional components
 - JSX syntax
 - Importing and exporting components
 - Managing static content rendering
 - Integrating CSS with React-Vite projects
 - Converting static HTML pages into React components
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4. CSS Design and Styling Work

4.1 Core Styling

I implemented CSS for:

- Page layouts using Flexbox and Grid
- Tables with custom headers and row styling
- Breadcrumb navigation bars
- Button styling and hover effects
- Font consistency and spacing control

4.2 Advanced CSS Concepts

I learned and applied advanced CSS concepts including:

- Animations and transitions
 - Hover and focus effects
 - Responsive behavior using media queries
 - UI enhancement through subtle animation effects
 - Clean and readable stylesheet organization
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5. Solar Project UI Development

5.1 Project Overview

In addition to the AP RERA work, I actively contributed to a **Solar Project UI**, focusing on user-facing components for an e-commerce-like platform.

5.2 Features Implemented

- Category listing pages for solar products
- Product cards with images, descriptions, and pricing
- Add-to-cart UI functionality (frontend level)
- Filters and dropdowns for product sorting
- Responsive grid layouts for different screen sizes

5.3 User Experience Improvements

- Improved spacing and readability
 - Consistent card design
 - Visual hierarchy for product information
 - Clear call-to-action buttons
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6. JavaScript & UI Logic Exposure

I worked on integrating JavaScript concepts for:

- Basic interactivity in UI components
 - Dynamic content handling
 - Event-based UI behavior
 - Understanding DOM interactions in frontend projects
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7. Technical Learning & Knowledge Enhancement

7.1 React JS Learning

I completed structured learning on **React JS (Moderate Level)**, covering:

- Component-based architecture
- Props and reusable components
- Project setup using Vite
- Best practices for frontend development

7.2 CSS Animation Learning

I studied and documented:

- CSS animation basics
- Keyframes
- Transitions
- Advanced animation techniques
- Performance considerations in UI animations

7.3 PL/SQL & BRM Exposure

I attended a **BRM (Billing and Revenue Management) Knowledge Transfer session** related to **PL/SQL**, where I learned:

- Role of PL/SQL in database operations
 - Usage of stored procedures and business logic
 - Importance of database-level processing in billing systems
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8. Machine Learning & System Documentation Exposure

I prepared short technical descriptions and documentation for:

- Stock Price Prediction using Machine Learning in Python
- Heart Disease Prediction using Logistic Regression
- Speed Detection System using Sensors
- Automatic Hand Sanitizer System using IR Sensors and Microcontroller

These activities improved my understanding of **system architecture documentation** and **technical explanation skills**.

9. Documentation & Reporting Skills

I regularly prepared:

- Daily work updates
- Detailed project descriptions
- Technical documentation for learning topics
- Simple English explanations for academic use

- Structured content suitable for reports and presentations

This helped enhance my **professional communication skills** alongside technical growth.

10. Tools & Technologies Used

- React JS
 - Vite
 - HTML5
 - CSS3
 - JavaScript
 - VS Code
 - Browser Developer Tools
 - Git (basic exposure)
 - Windows development environment
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11. Challenges & Learnings

Challenges:

- Matching UI exactly with reference designs
- Managing CSS scope in React projects
- Converting static designs into reusable components

Learnings:

- Importance of clean file structure
 - Writing maintainable CSS
 - Breaking down complex UIs into simple components
 - Following professional coding standards
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12. Overall Outcome

This period significantly strengthened my **frontend development skills, UI design understanding, and technical documentation abilities**. I gained hands-on experience in real-

world style web interfaces, improved my confidence in React and CSS, and developed a disciplined approach toward structured coding and reporting.
