

U & P U. Patel Department of Computer Engineering, CSPIT  
CHANDUBHAI S PATEL INSTITUTE OF TECHNOLOGY (CSPIT),  
CHARUSAT  
**WEEKLY REPORT**

Week No: 4

Date from: 20/01/2025 To: 03/02/2025

Student Id: 21CE108

Student Name: Kaumilkumar Patni

Project ID: PRJ2025CE125

Project Title:

**Work done in last week (Attach Supporting Documents):**

- Learned fundamental **Web App Concepts**, including **Client-Server Architecture, Data Storage, Cookies, Sessions, Cache, Local Storage**, and the differences between **SPA & non-SPA** applications.
- Gained hands-on experience with **REST APIs** and explored **Login/Logout workflows** with access checks.
- Studied **PHP basics** from W3Schools, covering **global variables, form handling, string, number, array, and date functions**, along with **MySQL connectivity and error handling**.
- Explored **CodeIgniter framework**, learning **MVC concepts, routing, active records, standard helpers & libraries**, and handling **cookies, sessions, file uploads, and user input**.
- Worked on **AngularJS**, covering **SPA concepts, controllers, views, two-way data binding, form handling with API data, and directive/service/filter creation**.
- Researched **state management techniques in AngularJS**, including **scopes, built-in directives, and services** for optimized application performance.

**Reason for incomplete work / Comment by Guides:**

**Plans for next week:**

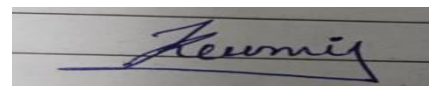
- Strengthen knowledge of **File Handling in PHP & CodeIgniter**, including **file uploads, downloads, and manipulation techniques**.

- Explore **Hooks in CodeIgniter** to modify core functionalities and improve application flexibility.
- Dive deeper into **Routing** using **AngularJS (ui-router)** and manage **dynamic states with \$state & \$stateProvider**.
- Work with **cURL** in PHP for making API calls and handling external data integration.
- Learn to **create custom helpers & libraries** in CodeIgniter for reusable code.
- Implement **email functionality** in **PHP & CodeIgniter** for sending notifications and user confirmations.
- Enhance **AngularJS skills** by mastering **ng-repeat, ng-show, ng-if**, and understanding **scope hierarchy**.  
Develop and test **custom directives** in AngularJS for **data binding & component reusability**.
- Build **REST APIs** using PHP and CodeIgniter, ensuring proper **authentication & security measures**.
- Learn to integrate **AngularJS with CodeIgniter**, handling API responses efficiently.
- Investigate and resolve **Material Design Lite (MDL) compatibility issues with AngularJS** for a seamless UI experience.

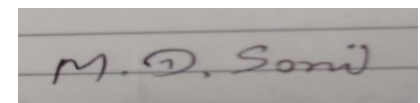
### References (Attach extra sheet if required):

- <https://www.w3schools.com>
- <https://www.codeigniter.com/userguide2/tutorial/index.html>
- <https://www.youtube.com/playlist?list=PL6n9fhu94yhWKHkcL7RJmmXyxkuFB3KSI>

Signature of Student (With Name): Kaumilkumar Patni



Signature of External Guide (With Name & Date): Mihir Soni



Signature of Internal Guide (With Name & Date): Dr. Martin Parmar