

**SRM UNIVERSITY, ANDHRA PRADESH**  
**SUMMER INTERNSHIP COURSE, 2023**  
**WEEKLY DIARY REPORT (PS-III)**  
**(STUDENT BATCH 2021-25)**

**(To be submitted to Faculty Mentor over mail with CC to Industry mentor)**

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Company Name (For industry internship): APSSDC

Name of Faculty Mentor: Dr Neeraj Kumar Sharma

Week 1 From 19-16-2023 to 24-06-2023		
S. No	Field	Answer
1	Project Title	
2	Project Description	
3	Outline of the Solution	
4	Design of the Solution	
5	Hardware and Software Requirements to execute the project	
6	Environment setup windows/linux/Raspberry pi/Arduino	
7	Concepts Used (Functions, header files, data types, and concepts (Loops, arrays, conditional statements, etc.). Explanation of the concepts). For Hardware projects also explain with respect to the code being developed	
8	Testing & Validation (Boundary tests and boundaries of inputs. Possible inputs and corresponding outputs).	

9	Testing Material (Screenshots of working outputs. Images in case of hardware project)	
10	User Manual	
11	Technical Documentation	
12	References	
13	Daily Work Breakdown	
	Day 1	Python Installation and different procedures to execute Python programs
	Day 2	Jupyter Notebook Installation, and Basics of Markdown Language
	Day 3	Python basics (variables, data types, type casting, operators, keywords, input and output formatting)
	Day 4	Conditional Statements, For Loop, and Range Overview
	Day 5	While loop, Jumping statements, Nested loops, and some pattern examples
	Day 6	Introduction to data structures, List and tuple methods, and their overview
Week 2 From 26-06-2023 to 01-07-2023		
	Day 1	Dictionary and sets and their methods
	Day 2	Strings and their methods
	Day 3	Introduction to functions and types of function arguments (default, positional arguments)
	Day 4	Basics of HTML (reference <a href="https://www.w3schools.com/html/">https://www.w3schools.com/html/</a> )
	Day 5	Types of arguments(Keyword,variable-length) and Introduction to Packages and modules
	Day 6	Files concept with sample examples on different modes.
Week 3 From 03-07-2023 to 08-07-2023		

	Day 1	Introduction to CSV files and created a Contact application file to perform operations like (creating, updating, deleting, and displaying contacts) using CSV files
	Day 2	created an Attendance application ( which will give attendance to students if they are following the correct username format and they present in session for more than 90 min) using CSV files (from the Zoom platform)
	Day 3	Comprehension in Python (List, Set, and Dictionary Comprehension), Iterators and Generators in Python, and Task Checking on Contact Application and Attendance Application
	Day 4	Installation of DB Browser for SQLite, creating a database, and creating a record using Python (by importing sqlite3)
	Day 5	Learned to fetch a record, update a record, and delete a record from the database. Created a Python module to perform CRUD (Creating, Reading, Updating,Deleting) operations on a database using sqlite3.
	Day 6	Python OOPs concept
Week 4 From 10-07-2023 to 15-07-2023		
	Day 1	Installation of Django, Project creation and file overview, admin app folder overview, user app creation and file overview, and project execution
	Day 2	Dynamic url mapping with a single and N number of parameters, some HTML tags with basic styling using CSS, HTTPResponse, request, and render method in Django,Template folder creation
	Day 3	Interface between Controller and Template, Django Template Language (DTL) to access dynamic data from views to HTML files; From design by using internal style using the inspect element
	Day 4	Interface between the controller and another templates, Overview of Form methods [Get, Post] and their differences, Types of Front-end libraries and the basics of Bootstrap-4

	Day 5	Container, Container-fluid, Jumbotron, Cards, Grid system, margins, Padding, Color scheme, Form controls, Buttons in Bootstrap
	Day 6	CSS3 fundamentals and Bootstrap-4 components ( reference : <a href="https://www.w3schools.com/bootstrap4/">https://www.w3schools.com/bootstrap4/</a> )
Week 5 From 17-07-2023 to 22-07-2023		
	Day 1	Static File handling and implementation of a Login Page for students (front-end), Bootstrap-4 download for offline mode, Model overview, Model creation for students, and completed make migrations and migrate to the model class.
	Day 2	ORM (Object Relational Mapper) queries in shell; Completed CRUD (Create Read Update Delete) operations in shell using ORM queries
	Day 3	Architecture of Django, Difference between MVC and MVT Design patterns, DTL language for iterating the dictionary to access values from the database (Using for loop in DTL), and completed the creation and reading of a record with a template by using ORM queries for the Student Model.
	Day 4	Completed the update and deletion of single record and multiple records in the student Model using ORM queries, The forms overview, and created forms for the employee model class.
	Day 5	Widget concept for form class, completed creation and updation of record using form concept.
	Day 6	Creation of admin for a project and overview of admin controls and Creation of a new project and static folder configuration in the project.
Week 6 From 24-07-2023 to 29-07-2023		
	Day 1	Nav bar implementation in the home page, created separate HTML pages for each link in the nav bar and created a user registration page.
	Day 2	User Authentication and Authorization and implemented mail-sending concept.

	Day 3	Started a mini-project on the leave management system and completed the basic designing part on the home page.
	Day 4	Superuser creation and completion of the design part for superuser access, and created extra fields for the user model by using AbstractUser module.
	Day 5	Design the Admin page to perform CRUD operations on users and implement the role concept for different users.
	Day 6	Roles basis menu and profile displaying for different users
Week 7 From _____ to _____		
	Day 1	
	Day 2	
	Day 3	
	Day 4	
	Day 5	
	Day 6	
Week 8 From _____ to _____		
	Day 1	
	Day 2	
	Day 3	
	Day 4	
	Day 5	