SRM UNIVERSITY, ANDHRA PRADESH
SUMMER INTERNSHIP COURSE, June 2025
WEEKLY DIARY REPORT
(B.Tech. STUDENT BATCH 2023-27)

Name of Student: Kuruva Yaswanth Kumar
ID NO: AP23110011229
Company Name (For industry internship): Trinwo Solutions
Name of Faculty Mentor: Ananya Mahanti

Week 1 From 09/06/25 to 15/06/25		
S. No	Field	Answer
1	Project Title	Q&A Forum (Like Stack Overflow Lite)
2	Project Description	This project replicates a simplified Q&A community platform. Users can ask questions, post answers, upvote/downvote content, and tag questions for easier discovery. It offers great exposure to content structuring, interactions, and user engagement models.
3	Outline of the Solution	A web-based Q&A platform where users can ask/answer questions, upvote/downvote content, search via tags/keywords, and view user profiles with reputation scores.
4	Design of the Solution	**MVC Architecture (Laravel)** **Frontend**: Bootstrap-based responsive UI **Backend**: Controllers handle logic; Models manage DB; Views render pages **Database**: Relational tables for Users, Questions, Answers, Votes, Tags

5	Hardware and Software Requirements to execute the project	**Hardware**: Any basic laptop/PC **Software**: ● PHP ≥ 7.4 ● Laravel ≥ 8 ● MySQL ● Composer ● Git ● Browser (Chrome/Firefox)
6	Environment setup windows/linux/Raspberry pi/Arduino	**OS**:Windows/Linux **Steps**: ● Install PHP, Composer, MySQL ● Clone Git repo ● Run composer install ● Configure .env file ● Run php artisan migrate && serve

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	● **Programming**:
		  ○ **PHP, SQL, HTML, JS, CSS**
		  ○ **Functions** (Controller methods, helper functions)
		  ○ **Header Files**: use statements for classes in Laravel
		  ○ **Data Types**: Strings, Integers, Arrays, Booleans
		  ○ **Control Structures**: Loops (foreach), If-Else, Switch
		  ○ **JS Concepts**: DOM manipulation, AJAX.
		● **Laravel Concepts**:
		  ○ Routing, Middleware, Blade Templating, Eloquent ORM

8	Testing & Validation (Boundary tests and boundaries of inputs. Possible inputs and corresponding outputs).	● **Boundary Tests**:
		  ○ Title: Min 10 chars, Max 255
		  ○ Tags: Max 5
		  ○ Answers: Cannot be empty

		● **Validation Examples**:
		
		  ○ Input: Empty question → Output: Error "Title is required"
		  ○ Input: Long tag list → Output: "Too many tags"

9	Testing Material (Screenshots of working outputs. Images in case of hardware project	Will be submitted post development
10	User Manual	**. Register and log in to your account** **. Ask a question via the Ask page** **. Answer questions on the detail page** **. Upvote or downvote questions and answers** **. Search content using tags or keywords** **. View your profile from the navigation bar**

11	Technical Documentation	**Technical Documentation**
		
		● **ER Diagram**: Users ↔ Questions ↔ Answers ↔ Votes ↔ Tags
		● **DB Tables**: (Not finalised yet)
		
		  ○ users(id, name, email, password)
		  ○ questions(id, user_id, title, body, created_at)
		  ○ answers(id, question_id, user_id, body)
		  ○ votes(id, user_id, content_type, content_id, vote_type)
		  ○ tags(id, name)
		  ○ question_tag(question_id, tag_id)

12	References	Laravel Docs : https://laravel.com/docs/12.x mySQL Docs : https://dev.mysql.com/doc/ Bootstrap Docs : https://getbootstrap.com/ Stackoverflow (for some solutions) : https://stackoverflow.com/questions

13	Daily Work Breakdown	Goal of First week is to develop UI/UX
	Day 1	Planned the project approach with the team, discussed features, and assigned roles. I was assigned as the backend developer.
	Day 2	Set up the frontend environment and started learning basic HTML, CSS, and JavaScript structure. Explored layout design principles and component planning.
	Day 3	Focused on building reusable UI components like buttons, forms, and cards. Started implementing responsive layouts using Flexbox and Grid.
	Day 4	Worked on the structure of the question and answer pages. Added form validation for user inputs and integrated basic interaction features like voting UI.
	Day 5	Assisted the UI/UX designer in Figma to design the login and home page layouts. [Figma Design Link](#)
Goal of Second week is to develop Frontend		
	Day 1	Started by building the Sign Up page based on the Figma design. Focused on responsive layout and added basic JavaScript validation for user input.
	Day 2	Developed the Login page with a clean form, integrated a "show/hide password" feature, and ensured it matched the Sign Up page style.
	Day 3	Created the Home (Feed) page layout with question cards, vote buttons, and tags. Used Flexbox/Grid to make the layout responsive and mobile-friendly.
	Day 4	Designed the Question Detail page to display full question content and answers. Added a scrollable answer section and input area for new responses.
	Day 5	Built the top navigation bar with search and profile menu. Connected all pages and spent time refining spacing, fonts, and alignment across the UI.
Week 3 From _____ to _____		
	Day 1	

	Day 2	
	Day 3	
	Day 4	
	Day 5	
Week 4 From _____ to _____		
	Day 1	
	Day 2	
	Day 3	
	Day 4	
	Day 5	
Week 5 From _____ to _____		
	Day 1	
	Day 2	
	Day 3	
	Day 4	
	Day 5	
Week 6 From _____ to _____		
	Day 1	
	Day 2	
	Day 3	
	Day 4	

	Day 5	
Week 7 From _____ to _____		
	Day 1	
	Day 2	
	Day 3	
	Day 4	
	Day 5	
Week 8 From _____ to _____		
	Day 1	
	Day 2	
	Day 3	
	Day 4	
	Day 5	