

	TEAM NUMBER		6																						
	SPRINT		1																						
	TEAM MEMBERS		Pranay, Utkarsh, Anthony, Logan, George, Neel																						
STORY NUMBER	TASK DESCRIPTION	OWNER	START DATE	DUE DATE	WEEK 1							WEEK 2							WEEK 3						
					M	T	W	R	F	S	Su	M	T	W	R	F	S	Su	M	T	W	R	F	S	Su
Column 1	Setup Redis Cache and PostgreSQL Database																								
	Create a Redis Cache to store the parking lot availability counters	Neel	10/1/2025	10/17/2025																					
	Create a PostgreSQL database to store historical data and login information	Neel	10/1/2025	10/17/2025																					
	Configure the Redis Cache to store key-value pairs tracking remaining parking spots	Neel	10/4/2025	10/17/2025																					
	Configure the Redis Cache to store key-value pairs for tracking last updated time	Neel	10/4/2025	10/17/2025																					
	Configure the PostgreSQL database with tables for login information and each parking lot	Neel	10/4/2025	10/17/2025																					
	Configure a Redis Pub/Sub channel to send key-value pair updates to clients	Neel	10/5/2025	10/17/2025																					
	Test the robustness and functionality of the Redis Cache and PostgreSQL databases	Neel	10/5/2025	10/17/2025																					
2	Setup Python Backend with Django and Basic Routes			10/17/2025																					
	Create Python backend and initialize Django framework	George	9/30/2025	10/17/2025																					
	Implement basic routing to the Redis cache and to the PostgreSQL database	George	10/1/2025	10/17/2025																					
	Test the connection by incrementing and decrementing Redis and checking backend	George	10/6/2025	10/17/2025																					
	Test the connection to the PostgreSQL database	George	10/7/2025	10/17/2025																					
3	Integrate sign in with Apple Account			10/17/2025																					
	Create and register app with Apple	Utkarsh	10/1/2025	10/17/2025																					
	Install Apple SDKs and libraries	Utkarsh	10/8/2025	10/17/2025																					
	Create a button on the frontend to sign in with Apple	Utkarsh	10/9/2025	10/17/2025																					
	Connect to the backend and implement endpoints for OAuth, tokens, and verification	Utkarsh	10/11/2025	10/17/2025																					
	Test integration to the PostgreSQL database, backend, and frontend	Utkarsh	10/12/2025	10/17/2025																					
4	Integrate Sign in with Google Account			10/17/2025																					
	Register the app in Google Cloud Console and obtain OAuth 2.0 client credentials (Client ID & Secret).	Utkarsh	10/1/2025	10/17/2025																					
	Install Google OAuth SDKs and libraries	Utkarsh	10/1/2025	10/17/2025																					
	Create a button on the frontend to sign in with Google	Utkarsh	10/1/2025	10/17/2025																					
	Connect to the backend and implement endpoints for Google OAuth callback, token exchange, and Google ID token.	Utkarsh	10/4/2025	10/17/2025																					
	Test integration with PostgreSQL database, backend, and frontend	Utkarsh	10/5/2025	10/17/2025																					
5	Integrate Sign in with Email and Password			10/17/2025																					
	Create a user data type in the backend and database	George	9/30/2025	10/17/2025																					
	Create REST API routes for basic login and signup	Utkarsh	10/6/2025	10/17/2025																					
	Create some generic preferences that can be used to test persistence	Logan	10/1/2025	10/17/2025																					
	Create unit tests for the login and signup	Logan	10/1/2025	10/17/2025																					
	Test with admin users and run end to end tests	Utkarsh	10/6/2025	10/17/2025																					
6	Setup CV Model to Detect Cars			10/17/2025																					
	Research pre-labeled car detection models from Open CV (COCO, Pascal VOC, Open Images, Roboflow)	Pranay	9/30/2025	10/17/2025																					
	Download pre-trained model and verify environment set up	Pranay	10/1/2025	10/17/2025																					
	Download parking lot and non parking lot video footage	Pranay	10/3/2025	10/17/2025																					
	Verify and test car image is detected by model	Pranay	10/5/2025	10/17/2025																					
	Verify and test that the test negative image is not detected by the model.	Pranay	10/5/2025	10/17/2025																					
7	Driver Counts			10/17/2025																					
	Link Redis Cache to PostgreSQL DB through Python HTTP request on edge computer	Pranay	10/6/2025	10/17/2025																					

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