

Project: Sustainable City Management

Group : 5

SPRINT LOG

Purpose A Weekly Log is used to record issues, required actions or significant events not caught by other registers or logs. It acts as the project diary for the all team members.

Contents The document contains all the events, problems, actions and challenges faced during each sprint and the steps or solutions applied in the following iterations. This is a formal log of all the MoM of daily stand-up meetings and weekly status update meetings.

Log Description

Date of Entry	Problem, action, event or comment	Person Responsible	Target Date	Date of Update	Results/Comments
Sprint 1					
22-Jan	Use Cases/ Design Plan <ul style="list-style-type: none"> Use Case for tentative UI and DB Tentative Design Plan 	Pair 1	26-Jan	26-Jan	On Track
22-Jan	Data Set – Find datasets for indicators	Pair 2	26-Jan	26-Jan	Found dataset/API for City Events, Bike, Need to find dataset for Weather
22-Jan	Data Set – Find datasets for indicators	Pair 3	26-Jan	26-Jan	Found dataset/API for Irish Rail, Parking, Need to find dataset for Luas, Bus and Traffic
Sprint 2					
28-Jan	Functional Architecture <ul style="list-style-type: none"> Finalize Architecture 	Pair 2	1-Feb	1-Feb	Complete
28-Jan	Technical Architecture <ul style="list-style-type: none"> Finalize technical architecture – fault tolerance, file dumps, DB, Synchronizer 	Pair 1	1-Feb	1-Feb	Complete
28-Jan	Pair Programming and Project plan <ul style="list-style-type: none"> Overview of Sprints with plans for 12 sprints 	Pair 3	1-Feb	1-Feb	Complete and delivered to TA and Module instructor

Sprint Log

Sustainable City Management

	<ul style="list-style-type: none"> Pair programming plan for 12 sprints 				
Sprint 3					
4-Feb	Create Django PoC <ul style="list-style-type: none"> Create framework for python 	Pair 3	8-Feb	8-Feb	Framework in place and pushed to Git
4-Feb	D3.js PoC <ul style="list-style-type: none"> PoC for bike data available from API Integrate HTML page in framework 	Pair 2	8-Feb	8-Feb	Created PoC for bike data simulated every 5 seconds
4-Feb	Use Cases <ul style="list-style-type: none"> Finalize Use Cases and Create document Create module GitHub <ul style="list-style-type: none"> Module GitHub to maintain code Google drive back up Google drive module folder with document deliverables 	Pair 1	8-Feb	8-Feb	Completed Use Cases and added all documents to git.
Sprint 4					
11-Feb	Set up Django Framework <ul style="list-style-type: none"> Create Apps for each indicator identified so far Set up PostgreSQL on AWS Cannot create instance on university network.	P1	15-Feb	15-Feb	Created a separate app for each of the indicators Challenges : Cannot create AWS server instance from college Wifi network

Sprint Log

Sustainable City Management

					Temporary Solution : PostgreSQL instance on every machine. Sync daily/weekly.
11-Feb	Create App for Bike and integrate PoC	P3	15-Feb	15-Feb	75% progress
11-Feb	Start working on Irish Rail API data <ul style="list-style-type: none"> Create app and get data from API 	P2	15-Feb	15-Feb	70% progress Issues with XML format of data. <ul style="list-style-type: none"> An API needs to be called to get all station codes Pass each station code as a query string parameter to get station info from API Challenges : <ul style="list-style-type: none"> Too many loops Slows down app Next iteration : <ul style="list-style-type: none"> Work on storing station codes directly to DB (assuming they are static) to avoid repeated API calls.

Sprint Log

Sustainable City Management

Sprint 5					
18-Feb	<p>Database setup:-</p> <ul style="list-style-type: none"> • Create Tables for bike and rail • Do not need to create tables manually in PostgreSQL, Django framework created DB schema based on app Models. <p>Continue work from past iteration for bike.</p>	P3	22-Feb	22-Feb	<p>100%</p> <ul style="list-style-type: none"> • Completed unit test cases • Insert data from API to database • Integrated visualization (html and js) into Django framework
18-Feb	<p>Start working on City Event data from Eventbrite API</p> <p>Refactoring</p> <ul style="list-style-type: none"> • Refactor app code 	P1	22-Feb	22-Feb	<p>50% progress</p> <ul style="list-style-type: none"> • API Call • Test Case to test model and Urls
18-Feb	<p>Irish Rail</p> <ul style="list-style-type: none"> • Write test cases for View Model and Urls • Bind data to HTML page (either data table or any other visualization) 	P2	22-Feb	22-Feb	<p>100% complete.</p> <ul style="list-style-type: none"> • Test Cases for each method in • Individual dashboard displaying all data in a data table ready.
Mid Term Review					
	<p>To Do</p> <ul style="list-style-type: none"> • Find data for bus, traffic • Start Work on UI • Login UI for Django 				

Sprint Log

Sustainable City Management

	<ul style="list-style-type: none"> Data Handling Model building for Prediction Data Analysis and Correlations 				
Sprint 6					
25-Feb	Priority UI Layout <ul style="list-style-type: none"> Finalize home page and individual dashboard design and navigation Build a UI skeleton for Home Page Log In Screen 	P1	1-Mar	1-Mar	UI template finalized and skeleton added to Main folder Login Pending
25-Feb	City Event Dashboard	P3	1-Mar	1-Mar	100% complete. <ul style="list-style-type: none"> Bind event data to calendar Saved to DB tables
25-Feb	Start Working on Weather Dashboard	P2	1-Mar	1-Mar	50% Challenges <ul style="list-style-type: none"> Weather csv needs to be downloaded every hour and collated Visualization for weather TBD Only 1 row of data every hour (Little data for future predictions)
Sprint 7					

Sprint Log

Sustainable City Management

4-Mar	Weather Dashboard	P3	8-Mar	8-Mar	80% <ul style="list-style-type: none"> Completed unit tests for model and urls Visualization pending
4-Mar	UI Layout <ul style="list-style-type: none"> Fine tune UI Test cases for views Refactoring <ul style="list-style-type: none"> Refactor API handling and app code 	P1	8-Mar	8-Mar	Complete. Data Handling app added that takes care of API calls of indicators so far.
4-Mar	Login <ul style="list-style-type: none"> Create super user and Log in page 	P2	8-Mar	8-Mar	80% Hide show dashboards once all links ready
Sprint 8					
11-Mar	Weather Dashboard Car Park Dashboard	P1	15-Mar	15-Mar	Completed Weather Dashboard – test cases, views Completed Parking Dashboard – test cases, views Update : Identified Bus information from RTP1, Historic Weather data for past 30 years

Sprint Log

Sustainable City Management

11-Mar	Integrate UI <ul style="list-style-type: none"> Integrate individual dashboard – Bike, Irish Rail, City Events and Weather on main home page Home Page widgets 	P2	15-Mar	15-Mar	
11-Mar	<ul style="list-style-type: none"> AWS set up and creating servers Refactoring – More refactoring of UI/Main app and Data Handling. Synchronizing – Create threads in Data Handling app to fetch data from all APIs every few minutes and call respective views to store data to DB 	P3	15-Mar	15-Mar	Ticket Resolved Created central server on cloud and migrate DB from local to Cloud
Sprint 9					
18-Mar	UI <ul style="list-style-type: none"> Change icons Change log in screen and hide dashboards for non admin Add traffic dashboard Start working on Bus information	P3	22-Mar	22-Mar	Completed UI changes <ul style="list-style-type: none"> Login 100% complete 50% Bus Dashboard Here Maps data and API for traffic and incidents on map
18-Mar	Home Page Statistics <ul style="list-style-type: none"> Bike 	P1	22-Mar	22-Mar	Calculate/Analysed <ul style="list-style-type: none"> Top 5 busy bike stations

Sprint Log

Sustainable City Management

	<ul style="list-style-type: none">EventsRailParking Statistics on home page				<ul style="list-style-type: none">Available bikes at each stationCurrent train delaysCurrent Events in the cityCurrent weather in the city.Top 5 busy parking areas
18-Mar	Analytics <ul style="list-style-type: none">Roll up historic weather data into zonesRoll up historic traffic data into zones	P2	22-Mar	22-Mar	Complete
Sprint 10					
25-Mar	Bus Dashboard Luas Alerts – API for real time Luas status updates	P2	29-Mar	29-Mar	80% Complete
25-Mar	Analytics <ul style="list-style-type: none">File Dump readyData Cleaning for Weather and TrafficRandom Forest for Weather prediction	P3	29-Mar	29-Mar	Failed. RF resulted in 20% accuracy New model to be tested next week
25-Mar	Traffic Prediction <ul style="list-style-type: none">Time Series Model on historic data Refactoring	P1	29-Mar	29-Mar	50% Data Modelling done.

Sprint Log

Sustainable City Management

Sprint 11					
1-Apr	Analytics Dashboard	P3	1-Apr	5-Apr	Work on Analytics dashboard <ul style="list-style-type: none">Tableau for analytics
1-Apr	Buffer for final round of testing <ul style="list-style-type: none">Cosmetic changes and bug fixing	P1	1-Apr	5-Apr	Bug fixing and cosmetic changes
1-Apr	Documentation and ppt presentation <ul style="list-style-type: none">RefactoringDocumentationPpt	P2	1-Apr	5-Apr	Complete
Sprint 12					
8-Apr	Technical and Functional architecture description, Group report	P1	8-Apr	12-Apr	Complete
8-Apr	System and Behavioural structure models , Group report	P2	8-Apr	12-Apr	Complete
8-Apr	Compile and deployment instructions, Update project diary	P3	8-Apr	12-Apr	Complete