

# Sprint Retrospective Document

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Project acronym: BikeSharing

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Supervisor: Cevat ŞENER

## Supervisor's comments

My comment on the progress is positive, I advise to integrate the project while overcoming the deficiencies.

## Sprint summary and new sprint plan

Unique Item ID	Workpackage ID (from the Kick-off doc)	Description	Group's Comments	Status
Completed & Dropped items				
42	WP7	Finding closest zone according to user location on back-end side.	closestZone back-end get method which takes user location information and returns the center information of closest zone to user location was developed to call by front-end developers.	Completed.
43	WP3	Drawing path from user location to closest zone whose coordinates are taken from back-end side.	The method which was developed on back-end side was called and the path from the user to closest zone coordinate is drawn.	Completed.
44	WP5	Implementation of an admin interface that is used to draw a virtual zone on map dashboard interface.	An interface provided in dashboard for admin to draw virtual zones on map.	Completed.
45	WP7	Developing a method on back-end side that takes new zone coordinates from dashboard and inserts it on database.	insertZone back-end post method was developed. It takes coordinates, name and address information of the zone from dashboard and after checking intersection with another zone case, it inserts the zone to database as a Turf.js polygon feature.	Completed.
46	WP7	Developing back-end needs of user profile page to update user information.	Update user information methods of "Strapi" environment were used to back-end needs of	Completed

			user profile page.	
47	WP7	Implementation of back-end needs for user reports page.	Reports collection was created on database to record user notifications. It includes notification status and admin comments fields to follow the solution states currently.	Completed.
48	WP5	Getting collections from database to display on dashboard.	All collections in our database are integrated to dashboard and displayed as tables.	Completed.
50	WP5	Specifying a hardware with Bluetooth connection for developing smart lock.	Components for development of the smart lock are specified and ready for ordering.	Completed.
53	WP4	Conversion of the mobile application from expo managed project to natively built project.	Eject command was run, and eject process was successful. Configuration of native environment was finished.	Completed.
54	WP3	Integration of user profile and report pages to back-end services.	Users' information which are in AsyncStorage is shown on page, and a PUT request method was implemented to let users to update their information.	Completed.
55	WP7	Developing a back-end method which updates virtual zone coordinates.	updatePolygon back-end post method was developed. After calling from dashboard, it changes related polygon coordinates by checking intersection case.	Was not on the initial plan, completed.
56	WP7	Keeping all dockers information as virtual zones whose polygon fields are Turf.js geo-json features.	Dockers collection was changed as zones collection and all virtual zones were updated as Turf.js polygons. Database plugins of collections that are in a relation with zones	Was not on the initial plan, completed.

			collection were updated according to this change.	
57	WP7	Transferring dockers.js back-end code implementation to zones.js.	All methods in dockers.js were updated and transferred. Related back-end methods which queries to zones collection were developed.	Was not on the initial plan, completed.
15	WP5	Uploading data to the cloud system for data analyzing.	Since it is not the appropriate way for data analyzing, the item dropped.	Dropped.
19	WP4	Addition of required notification to the mobile application according to user usage data.	It is seen unnecessary feature to include in app and cancelled.	Dropped.
20	WP5	Application store payment methods will be integrated to the mobile app.	This is the last task to complete because the project is not commercial product yet. Also, it will restrict our development.	Dropped.
49	WP5	Creating and updating the data on database from dashboard.	In consequence of meeting with our supervisor, we decided not to include data manipulation in dashboard directly.	Dropped.
Continuing items				
31	WP5	Setting the permissions of accessing database from security perspective.	It will be developed after consideration of user restrictions.	Not started.
51	WP4	Integration of smart lock hardware with the mobile application.	This item depends on implementation of the smart lock.	Not started.
52	WP5	Calculation and demonstration of data statistics on dashboard.	It will be implemented in the following weeks.	Not started.

58	WP4	Converting Expo modules to native modules.	As we decided in this sprint, expo was ejected from the project. Some of expo modules are converted, but still we have some issues on it. Therefore, Expo-modules will be continued to convert to native modules.	Was not on the initial plan-in progress
59	WP4	Uploading images from mobile application to the server.	The report page has image picker to take or pick a photo. This image will be uploaded to server or sent via email. The chosen transfer method will be implemented.	Was not on the initial plan-in progress
New items				
60	WP7	Creation of Admin role for bike sharing user and making permissions of admin users for dashboard usage.		New
61	WP5	Integration of dashboard login page with login back-end code implementation.		New
62	WP7	Developing back-end methods and services to update user roles.		New
63	WP5	Correction on map page of dashboard and update on zones will be done, they will be resent to back-end side.		New
64	WP5	Users collection will be added to the dashboard.		New
65	WP5	Admin assignment feature will be added to the user page of dashboard.		New

66	WP6	New MongoDB database will be created for data analysis part of the dashboard.		New
67	WP6	Fake data will be generated and loaded to the newly created database.		New
68	WP5	Data analysis page will be implemented on dashboard.		New
69	WP8	Testing of methods and pages to provide smooth application. If there will be got some error on front-end, they will be fixed.		New
70	WP3	JWT Token implementation in headers in requests.		New
71	WP3	Re-designing necessary pages in order to provide easy usage.		New
72	WP5	Creating a project web page that introduces the BikeSharing system.		New

## Overall progress

	Sprint 1	Sprint 2	Sprint 3	Sprint 4	Sprint 5	Sprint 6	Sprint 7	Sprint 8	Sprint 9
MF1	0	0	0	0	0	0	0		
MF2	10	25	50	60	70	80	85		
MF3	25	25	25	35	45	50	55		
MF4	0	50	60	65	70	75	80		
MF5	0	50	60	65	70	75	80		
MF6	0	0	0	0	0	10	25		
MF7	0	0	0	25	25	30	35		
MF8	0	50	60	65	70	75	80		
MF9	0	0	0	0	0	0	0		
MF10	0	0	25	35	45	50	55		
MF11	0	0	0	0	0	0	0		
MF12	0	0	0	0	0	0	0		
MF13	0	0	0	0	0	25	40		
MF14	0	0	10	15	30	40	50		
MF15	0	0	0	0	0	0	0		