Project Status Report I

Date of Report Issue/Prepared: Feb 03 2023

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Employer/Organization: ParkVRO

Project Name:	ParkVRO	
Project Team:	T 03	
Period Reporting:	Start Date: **Jan 09, 2023**	End Date: **Feb 03, 2023**
Overall Project Health	Green (Good)	

SUMMARY

Project Status Summary
BackEnd finished 51% FrontEnd Finished 75%

Accomplishments As Planned	Planned but not Accomplished
Parking Spot Reservation - registered user can see available parking spots using and park	**Media Upload** - Media upload means correct storing, updating and retrieving images. The problem was that storing images in a database is extremely inefficient and database storage costs more than file system storage. In the next milestone we will try to store images in the filesystem and in the database only store paths of these images.
Server Side validation - data storage is expensive and we have to make sure we only store meaningful data. Backend will be validating every request and making sure no garbage data like invalid email or empty values for address or name are entered	**Phone Verification** - most phone authentication services come either with a small fee or require sharing of our customers information. We decided to postpone this feature for later for now. As either option does not satisfy us. And writing phone authentication from scratch is a long and tedious process and we are not sure if resources spent on it will benefit our project
User Side validation - we will filter eny garbage data at user side too, to prevent meaningless requests and lower server load	
Create Business Partner account - business panthers will be register with ParkVRO	

Create Customer account - ParkVRO customers will be able to register	
Parking Spot Listing - Registered Business partners will be able to create a parking spot	
Data Base - our team initially thought that we would use MySQL database at this stage. But since a lot of features are still in development it would be easier to use lightway in a memory database like H2 database which provides all functionality of MySQL except saving data to the disc. And then once we are ready to deploy our app we will replace the H2 database with MySQL. Since our app will be using Standardised ORM, changing database provider from H2 to MySQL will not cause any problem	

Upcoming Objectives for **Feb 04, 2023 to Mar 10, 2023**

	Planned Activities/Tasks for Next Period		
Activity/Task	Assigned To <name/s>	Duration <days>	Date
Implementation Media Upload	Rauf Anata, Ostap Sulyk	3 3	4 Feb 2023
Edit Profile For BP	Rauf Anata, Ostap Sulyk	3	7 Feb 2023
Edit Profile For Customer	Veronika Ushynska, Ostap Sulyk	3	7 Feb 2023
Password Recovery	Ostap Sulyk, Rauf Anata, Veronika Ushynska	6	13 Feb 2023
Stripe Payment	Veronika Ushynska, Rauf Anata, Ostap Sulyk	10	23 Feb 2023
Edit payment Method	Veronika Ushynska	4	27 Mar 2023
Edit payout method	Rauf Anata	5	4 Mar 2023
Implement Security	Ostap Sulyk	3	7 Mar 2023
Implement Docker container for SQL database	Ostap Sulyk	3	10 Mar 2023

Milestones for Next Period		
Milestone (Objective)	Assigned To	Delivery Date
Google Map integration - available parking spots will displayed on the map google maps	Veronika Ushynska, Rauf Anata, Ostap Sulyk	7 Feb 2023
Stripe API integration - stripe API allows payment integration using HTTP request response model.	Veronika Ushynska, Rauf Anata, Ostap Sulyk	14 Feb 2023
Email Verification - we decided to move email verification to later phase our project as implementing email verification makes more sense when we have security implemented.	Veronika Ushynska, Rauf Anata, Ostap Sulyk	25 Feb 2023

Managing Issues and Risk

Issues/Problems	Resolution Strategy	Due Date
Team disagreements	Working with a professor and encouraging communication between teammates to resolve issues.	NA
Bussy time schedule	We will have daily meeting to talk about what is done, what we are working on and what we plan to do for the next day	March 10, 2023

Upcoming Risks	Risk Ranking (Hi, Med, Low)	Risk Impact (Hi, Med, Low)	Mitigation Strategy
Time	Hi	Med	To overcome the impact of tight time schedules, we ranked our projects tasks from most important and easiest to accomplish to least important and hard

			to accomplish and will be prioritising tasks from the first category, for example creating an account, making a reservation.
Over promise and under deliver	Hi	Med	Team is lacking experience working on such a large scale application and some small mistakes that are made during project execution might have a large impact on the outcomes of the project. For example choosing the wrong design pattern might promote issues with scalability.

Technologies Stack Changes:

Old Technology	Replaced With	Reason of changing
NodeJS	Spring Boot	Spring Boot is a java framework for large scale applications shipped with lots of ready solutions such as Security, Email, DataBase connections etc. Also java is way faster then node js and is compiled language, which means that a lot of bugs will be caught by the compiler unlike with JavaScript.
MongoDB	MySQL	Even though Document Based databases are more scalable than relational databases, for our project we decided to go with a more traditional approach like MySQL. Docker Containerization of MySQL made deployment of databases easier and cheaper from Mongo. Also considering that the team consists of Junior

		Level developers we decided that every ounce of experience will be extremely valuable and the team unanimously had triple the experience with MySQL then with mongo.