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**RESTAURANT BOOKING SYSTEM**

**Introduction**

This project will be developed by using the concepts of agile methodology. Although our team consists of three members, we do not assign to anybody as a scrum master or product owner. We will do this project collaboratively and we are doing the job of those concepts together. We planned to develop a web application project by using agile methodology and PHP scripting language. This document will include;

* A summary of the project.
* Our approach to the solution, from the aspect of a web application.
* The technology and the architecture that will be used
* Epic
* Themes and User Stories
* Definition of done
* The review of first sprint (Burn - Down Chart)
* PSI (Potentially Shippable Increment)
* MVP (Minimum Viable Product)

**Project Summary**

Restaurant booking system is a convenient table booking system that can be used by any user by logging to the website. With this restaurant reservation system you can create a customized booking process and let people book a table online, manage restaurant availability and reservations. In this project there will be a system which will allow users to sign up and login. Also there will be filter options that can help users to select restaurants according to their wishes such as location, date, food style. There will be categories such as most popular restaurants, least priced restaurants, closest restaurants according your current location, most recent restaurants. There will be also a comment section that users can reach other users comments about a specific restaurant while making decision.

**Overall Solution from a Web Application**

Restaurant booking system is a convenient self-serviced table booking system that you can use it just by clicking the website. With this restaurant reservation system you can create a customized booking process and let people book a table online, manage restaurant availability and reservations.

**Technology and Architecture**

* Project will develop by using NetBeans IDE for PHP.
* PHPUnit Test will be used for testing.
* MySql for database.

**Epic**

As a customer, I want to find a proper restaurant according to my preferences such as my current location, the food type that I desire to eat or according to my budget. Also I want to be able to choose the most beautiful restaurant by reading the comments of the restaurant.

As a restaurant owner, I want to estimate approximate client number by using reservation quantity and I also want to prepare the menu early according to customer wants.

**Theme and User Stories**

1. **Sign up and Login**

* As a customer, I want to be able to register to the system
* As a registered user, I want to be able to login to the website and the system by using my user name and a password
* As a registered user, I want to choose my role while entering the system as a restaurant worker or customer

1. **Searching Restaurants**

* As a customer, I want to search restaurants according to restaurant location, price interval and cuisine so that I see restaurants list according to my preferences.

1. **Reservation**

* As a customer, I want to make a reservation on a restaurant by entering details such as reservation date, time and adults.
* As a customer I want to choose the table
* As a customer, I want to cancel my reservation when I want.
* As a customer, I want to reach my reservation list on my account.

1. **Choosing the Menu**

* As a customer, I want to choose the menu after making a reservation to the restaurant.
* As a customer, I want to cancel menu.

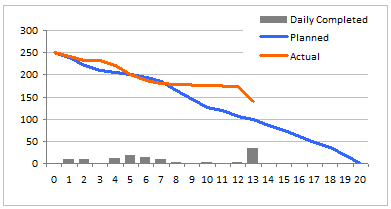
1. **Confirming the Reservation**

* As a restaurant owner, I want to manage the reservation system and control the availability of the table.
* As a restaurant worker, I want to see reservation list in the system.
* As a restaurant worker, I want to approve reservations.

**Definition of Done**

* The necessary coding environment and a deployment platform is set up.
* Initial pages of the web site is placed.
* Database communication is initialized.

**The review of first sprint (Burn - Down Chart)**



*Figure – 1*

**PSI (Potentially Shippable Increment)**

We are planning to complete the database integrations and interactions.

**MVP (Minimum Viable Product)**

The MVP that we desired to have is that allow users to make a reservation according to their preferences and also to provide some features such as choosing the table, choosing the menu, and selecting time and date just by logging to the website. In addition to all of these we desired to provide a connection between restaurant worker and customers by making an integration between all restaurants’ databases and the restaurant booking system website.