

MARMARA UNIVERSITY - FACULTY OF ENGINEERING



COMPUTER ENGINEERING DEPARTMENT

Spring 2023 CSE 3044 Term Project Homework 2

QuickRoute

Group 17

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SIMILAR SYSTEMS&APPLICATIONS

- GETİR

Getir is an online market application based in Turkey. The application allows users to do their grocery shopping online and receive their orders in a short time.

Couriers in the *Getir* app work with specially designed motorcycles to deliver orders as quickly as possible. Couriers receive orders through the application and use the most appropriate route and routing information provided by the application to reach the specified address in the fastest way.

To become a courier, some conditions are required in the *Getir* application. Couriers must be at least 18 years old, have a driver's license, have their own motorcycle, have a smartphone, be able to work flexible hours, use safety equipment, be insured, and have communication skills.

- BAYKUŞ KURYE

Baykuş Kurye is a mobile application that provides courier services. Two types of users can register the system. One of the users is courier, other one is customer who will send his/her package to somewhere. This application based in Turkey.

Couriers can be pedestrian, bikers, motorcycle or automobile drivers. Pricing differs according to courier's type. Customers who will send or receive his/her package choose locations and contact with 'Baykuş Kurye' who is a courier. Courier gives an estimated time for delivery, and customers accept or reject it.

Similarity between Baykuş Kurye and QuickRoute (our project) is that the aims of both projects are the same. Both applications gather couriers and customers in a reliable way. Difference between two application is we do not think make pricing according to customer's vehicle.

Reference: <https://baykuskurye.com/sik-sorulan-sorular/>

- ROVA

ROVA is an instant selling platform that connects with independent businesses. Use of enterprises to the volume of delivery costs, services of ROVA enterprises. From local restrictions to large dubious businesses, this platform is suitable for everyone 1.

The ROVA application can be continuously improved according to customer service and industry trends. There may be some different options:

Customer build: According to some customer reviews, app-related issues are not recycled when notifying the developer in the past. Therefore, customer service can be improved.

Length of app usage times: According to some customer reviews, app rarely works and sometimes crashes 2. Therefore, performance can be improved.

Reliability of deliveries: According to some customer reviews, deliveries are not working properly. Therefore, the reliability of deliveries can be increased.

Improved ease of use of the application: According to some customer reviews, the application is characterized as difficult to navigate. Therefore, the use of use can be increased.

Finding more job opportunities for drivers: According to some customer reviews, there are adjacent job opportunities to navigate. Therefore, more job opportunities can be provided to lead.

Speeding up the update of the application: The application is constantly updated, but sometimes these updates are slow. Therefore, it is important to speed up the update of the application.

Making the app compatible with more devices: According to some customer comments, some standards of the app are not working properly. Therefore, it is important to make it compatible with more devices.

Contents of application notifications: According to some customer reviews, application context notifications are not working properly. That's why it's important to have notifications within the app.

Providing more support for drivers: By providing more support for drivers, they can be helped to make it easier on their road.

Criteria of marketing of the application: It can be ensured that the application's marketing target can be developed and used more.

- ONFLEET

Improving customer service: It is important to find solutions to customers' problems quickly when there are problems with the application.

Improving the performance of the application: By increasing the performance of the application, customers can be delivered faster and more efficiently.

Increasing the reliability of deliveries: By increasing the reliability of deliveries, customers can make their deliveries more securely.

Increasing the ease of use of the application: By increasing the ease of use of the application, it can be ensured that customers use the application more easily.

Creating more jobs for drivers: By creating more jobs for drivers, they can be helped to earn more.

Speeding up the update of the application: The application is constantly updated, but sometimes these updates are slow. Therefore, it is important to speed up the update of the application.

Making the application compatible with more devices: By making the application compatible with more devices, more customers can be reached.

Improvement of notifications within the application: Improvement of notifications within the application can enable customers to learn more about their deliveries.

More support for drivers: More support for drivers can help them do their jobs more easily.

Developing the application's marketing strategies: It is possible to reach more customers by developing the application's marketing strategies.

SOFTWARE PROCESS MODEL

According to the requirements of this project, the most suitable software process model is the "incremental model".

The incremental model involves dividing project items into smaller, more manageable segments or increments. Each incremental partition is developed and tested separately. In this way, software increments are developed and delivered incrementally, with each incremental partition adding new functionality or features to the system. Each incremental part goes through analysis, design, implementation and testing before being delivered to the customer.

This model is suitable for this project as it allows for incremental development and delivery of the project. This approach allows the development team to get feedback from customers and stakeholders and use it to improve the product in subsequent increments. Also, this model is flexible and can be easily modified as the project progresses.

The incremental model also allows for early detection and correction of errors or problems before the project is complete. This reduces the risk of delays and rework later in the project.

In summary, the Incremental Model is the most appropriate model for this project, as it allows incremental development for a more efficient and effective product delivery with regular feedback and testing.