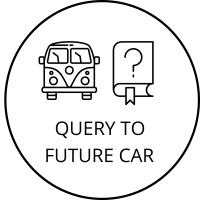
metin, işaret, karanlık içeren bir resim

Açıklama otomatik olarak oluşturuldu

***Software Project Plan***

***for***

***Reducing the probability of the buyer in the second hand car market to be victimized to a lower rate***

***by***

***Tolga Çobanoğlu***

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***1 OVERVIEW***

This project was started in September 2021 and is aimed to be completed in May 2022.Project has just one member,Tolga Çobanoğlu.

The motivation of the project is reducing the probability of the buyer in the second hand car market to be victimized to a lower rate. The thing in the middle of the project is the people. Everything should be done to increase their welfare level. We aim to come to a better place by preventing their suffering. In fact, with this application, we advocate the transparency of the information that concerns the public.According to different researchs,in shortly,the definition of transparency is relative, but relates to the public's right to know and access information. The benefits of transparency are mainly democracy, efficiency and positive impact against corruption.[1] As noted in Transparency International's Global Corruption Report 2003, "information is perhaps the most important weapon against corruption." And absence of, or inaccessibility to, information often creates a sense of disempowerment, mistrust and frustration.[2]From my point of view, information must be secure, accessible, free, clean and sustainable at all times.

For this project, it is desired to produce 3-4 different mobile applications. The operating system will be made in android and the program will be written using Java language and aimed to use a real-time database as Firebase.

In these different applications, the first is to define and update the repair cost made by the company to the system, secondly, the report outputs of the examinations made by the expertise side and adding them to the system, thirdly, previewing all the transactions made in the admin panel, and finally, the customer will be able to examine the details of the vehicle and the reports by making a plate inquiry. It is aimed to reduce the grievances caused by the processing of information and the transparency of this processed information.

***2 PROJECT SCOPE***

Project features and functionality are related with applications. If we consider the applications one by one;

On car service client application side,a car is come to service.After a certain time and transactions(this can be fix,maintenance or paint) car is repaired and car’s problem is solved.This time and transactions have price and transaction details.After all operations was finished.Car service’s authorized person open applications sign in with authorized account,and create new record with car’s and transaction details and price. The database will be updated simultaneously.

On the car expert client application side is similarly to cars service application. A car arrives for the details to be extracted and examined by the appraised specialist. The expert examines the car and examines it in accordance with the procedures to be done in the application with the account approved by the business while examining it. As a result of this examination, a pdf of this car is created with the data he filled in.

On the admin client application side,Admin account when enter the system,will see all transaction car service and car expert like listview or tableview.

The last one is the query application. Each individual can query by entering the license plate, and as a result, they see both the damage record and the appraisal information about the car.

***3 PROJECT MILESTONES***

Divide the project into smaller parts by approaching with the logic of divide and conquer. Let's call these little things buckets. If we order these milestones, they will be like this,

* Software Project Plan
* Requirements Document
* Diagrams
* System Design
* Design User Interface
* Design Database
* Test System
* Prepare User Document

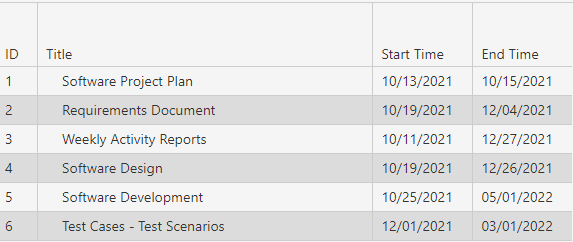
***4 SOFTWARE PROCESS - ITERATIONS***

Process will be like human step.All milestones are relational each other. In fact, they're all little bits of each other.In example design user interface and in this step we can add prepare user document instantly. One more idea, when we write functions for them while designing the user login screen, we can create test cases and quickly check them with unit tests to make sure that the functions give correct outputs.

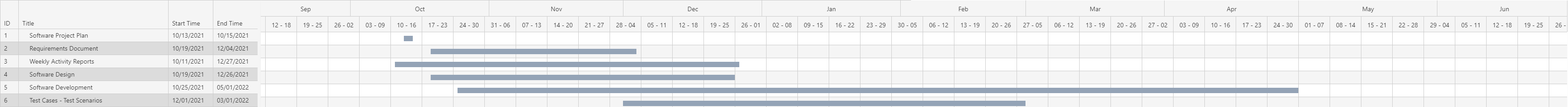
I will follow a path as in the items I listed as progress. Actually, the biggest wild card I will use here is multitasking skill.

Iterations,milestones,process is same,focus on the general analysis. Just like the input functions and unit tests example I mentioned above, when we develop them a little more and think broadly, we will actually produce the request documents, while the user interfaces template will be produced, only the implementation will remain. Likewise, while we are writing what the project will do as a document, while we are telling the user flow, this is our use case. It also creates our use case and other diagrams. For this reason, we will solve it with multitasking by connecting them all together with the phrase "well begun is half done".

***5 DELIVERY PLAN***

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***6 PROJECT SCHEDULE***

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***7 PROJECT RISKS***

- Multiple client system work withouth asynchronous.

- Database query can not response and data loss when system work without network.

- Database might need normalization.

- Some database query needs brute force therefore it effects user experience.

- License plate can be changed when buy-sell scenario.Query as license plate can be change with [vehicle identification number](https://tureng.com/tr/turkce-ingilizce/vehicle%20identification%20number).

***8 RISK MANAGEMENT***

Of course, there are risks in every project, but we can reduce them to the minimum amount or determine which ones we will encounter in the following stages and intervene in a short time. The way I will follow in risk management, I will always have a list at hand and this list may get longer or shorter during the development of the project. I will regularly check the items in this list and work on them for extra time.

***9 QUALITY ASSURANCE***

When we quote from this text[7], it complements what we wrote before. These things are test early,implement quality controls from the beginning,have a risk register and review, revise, and remember. We should standardize these items and apply them in the development of this project.

***10 PROJECT TOOL BOX***

- Project Platform : Mobile

According to blog written by GoodBarber Team in 2021[3], in this research mobile applications usage's are increasing,we should be modernization thus we have to develop apps have features as accessable every time,easy to use and non complex user friendly interface.

- Operating System : Android

According to Russel Brandom(2019)[4],Google announced in I/O developer conference,there are currently 2.5 billion active Android devices.

- Project Language : Java

According to Secure Technology Alliance blog was writen in 19 February,2004 [5],told us Java surpasses 1.5 billion devices worldwide. After this article, we can further develop why java is used by researching these are [6] work platform-independent,robustness and security features.

- Compiler : Android Studio

Official IDE for Android application development.

- Design : Adobe XD

It offers to design user interface with filling contents professionally.

- Diagrams : Visual Paradigm

It has good items to understand easily logic of diagrams and charts.

***11 REFERENCES***

[1] <http://www.foresttransparency.info/background/forest-transparency/32/transparency-and-the-right-to-information/>

[2]https://www.usaid.gov/what-we-do/democracy-human-rights-and-governance/promoting-accountability-transparency

[3] <https://www.goodbarber.com/blog/the-growth-of-mobile-apps-what-do-statistics-say-a1095/>

[4] <https://www.theverge.com/2019/5/7/18528297/google-io-2019-android-devices-play-store-total-number-statistic-keynote>

[5] <https://www.securetechalliance.org/java-technology-is-everywhere-surpasses-1-5-billion-devices-worldwide/>

[6] <https://www.ibm.com/docs/en/aix/7.1?topic=monitoring-advantages-java>

[7] https://testpoint.com.au/11-ways-to-improve-software-quality/