Tea For Five
Vision

1.   Introduction

In this project, we will develop a mobile application for online shopping. You will be able to buy books from different categories. The main theme of the application will be second-hand books.

2.   Positioning

2.1   Problem Statement

The problem of	*People usually read a book only once but they keep it just to showcase, people spend a lot of money to read books.*
affects	*Students, teachers, anyone who reads and buys books*
the impact of which is	*The valuable paper just rot in bookshelves and people just buy new books at high prices.*
a successful solution would be	*Designing a trading place for used books that are in good condition at low prices. Customers can save money and trees.*

2.2   Product Position Statement

For	*People who want to save money and the planet.*
Who	*Anyone who has well conditioned books.*
The (product name)	*is an Online Book Store raftan.com*
That	*Low Prices for books.*
Unlike	*D&R, kitapyurdu*
Our product	*Individual sellers and second hand buyers.*

3.   Stakeholder Descriptions

3.1   Stakeholder Summary

| Name	Description	Responsibilities
Customer	*Customers buy second-hand books.*	- *Search, view, buy items, confirm shipping.*
Shipping Company	*The shipping company will ship products from buyer to seller or vice versa.*	- *Ship the product's correct addresses.* - *Keep track of where the products are and show them to the buyers.*
Sellers	*Sellers can sell books.*	- *They can sell new or owned books.* - *They have to be truthful about their products.*
Software Project Manager	*Ensures the project's process is well.*	- *Makes a schedule of ongoing projects.* - *Has to face many difficult situations to accomplish these works.* - *Encouraging the organization by being organized.*
Software Analyst	*Software analyst is the person who studies the software application domain, prepares software requirements, and specification documents.*	- *Perform complex analysis, designing and programming to meet business requirements.* - *Interface with end-users and software consultants.* - *Resolve complex issues relating to business requirements and objectives.* - *Define specifications for complex software programming applications.*
Software Architect	*Makes general design choices.*	- *Software architect makes high-level design choices* - *Software architect proposes technical standards coding standards, tools, platforms, etc.*
Software Configuration Manager	*SCM organizes and controls the changes in the software development cycle.*	- *Identifies the configurations.* - *Makes sure the product is formally accepted.* - *Controls the changes in the documentation and the code.*
Software Tester	*Software tester tests the system and ensure it works correctly and report any bugs found in the system.*	- *Writes scripts and reviews the results* - *Makes sure the product works as expected.* - *Documents found bugs and system problems.*

3.2 User Environment

There are 3 types of users. Admins, customers and sellers. Admins can view / add / delete / edit. Every customer is also a seller if they want to. There are two involved in completing a task. One user buys the book which is listed by another user / seller, buyer must confirm the order after receiving the product they order otherwise it will be autoconfirmed after some time. We decided to implement this system because we allow customers to sell second hand books without first hand checking so customers should report if the item they received is not what they ordered or promised by the seller. Implemented system will resolve this issue. Customers will have the option to search and add items to cart in guest mode if they want to but they will not be able to proceed if they don't log in the system.

We will develop a mobile application. Because usage of mobile phones and applications skyrocketed in the recent years. Customers should be able to buy from wherever they want and we want to reach most people.
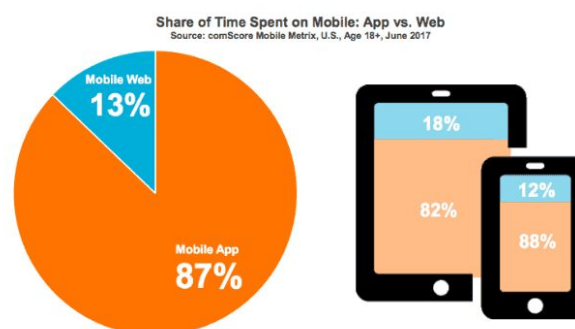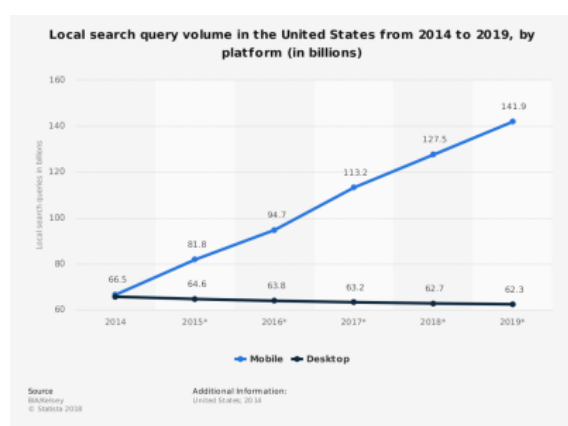
4. Product Overview

4.1 Needs and Features

Need	Priority (1-5)	Features	Planned Release
Users can sell products	1	Item info	April 6, 2020
Users can view products	2	Stock Info, Seller Info, Item Categories,	May 4, 2020
Users can buy products	3	Shipment Tracking, Item Review, Different payment methods	May 4,2020
Admin can manage products and users	4	Add, delete, edit the product	May 11, 2020
Users can search products	5	Item Search, Item Filtering,	May 11,2020

5. Other Product Requirements

We are going to use flutter in frontend. Flutter is a free and open source Google mobile UI framework that provides a fast and expressive way for developers to build native apps on both IOS and Android. Flutter engineered for high development velocity. Stateful hot reload allows you to change your code and see it come to life is less than a second without losing the state of the app. Flutter also ships with a rich set of customizable widgets, all built from modem reactive framework. Flutter apps follow platform conventions and interface details such as scrolling, navigation, icons, fonts, etc. That's why apps built with Flutter features on both on Appstore and Google Play Store.

We will use Spring Boot as a backend platform. It is easy to use and uses Java which we all are familiar with. It is similar to Spring Framework which is one of most widely used frameworks but Spring Boot is easier to launch compared to Spring and provides faster development.

Hardware and Software requirements;

Customers will use our product with their mobile phones. So, they need a mobile phone. it has any kind of OS like as IOS, Android.

Developers will use different kind of software tools to develop our product. These are flutter, java spring boot, mysql database. in the frontend they use flutter,in the backend java spring boot, in the database mysql.

Managements tools are the jira and github.

Requirement	Priority	Planned Release
Simple user interface demo on Android/iOS	3	06.04.2020
Simple user interface on Android/iOS	4	11.05.2020
Less than 2.5 seconds for login task	5	06.04.2020
Less than 2-3 seconds for search	5	11.05.2020
MySql Server on Local Server	1	06.04.2020
Java Api on Local Server	2	11.05.2020