AuctionIt Project Design Document

INT3052: Cross platform apps

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Summary of the application

"AuctionIt" is the simple product auction application which provides the platform that seller can post the products for auction then the buyer can bid it via offer the price. The user of application can be everyone who want to buy the thing with reasonable and satisfied price and the seller who want to sell the stuff which can get the higher price than expected

Audience

Everyone can use this application for auctioning the products which they want to get or to sell it.

The experience

The user can simply create the task and manage the task which is tick the checkbox when the task is done and delete the done task from the list.

How the application will be used

Example 1

User who want to sell the products can post the products with picture and detail then after the auction finish, the winner will contact back via phone no. to further sell.

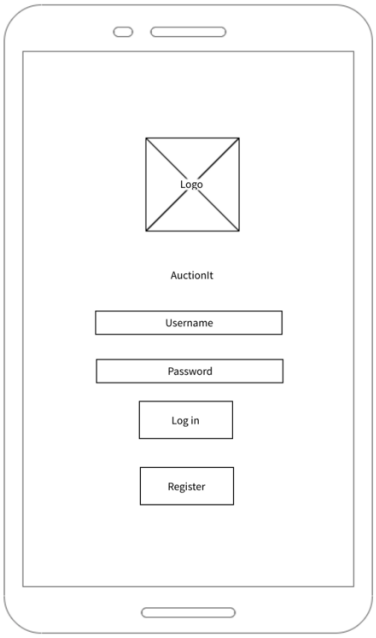
Example 2

User who want to buy the product can offer the price then when they win the auction, they can contact the seller via phone no. for buying.

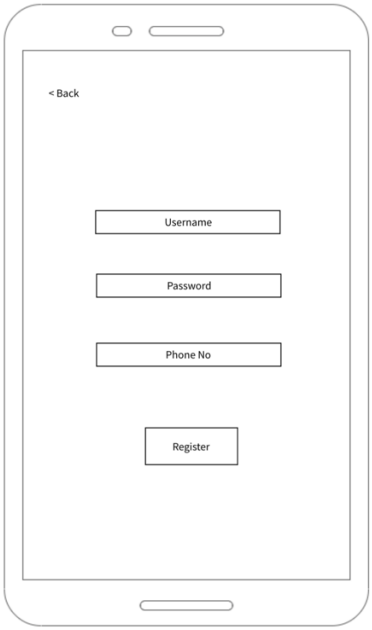
Main Features

- Login
- Sign up
- Main View
    - Show list of all available auctions
    - See Auction detail
- Create Auction

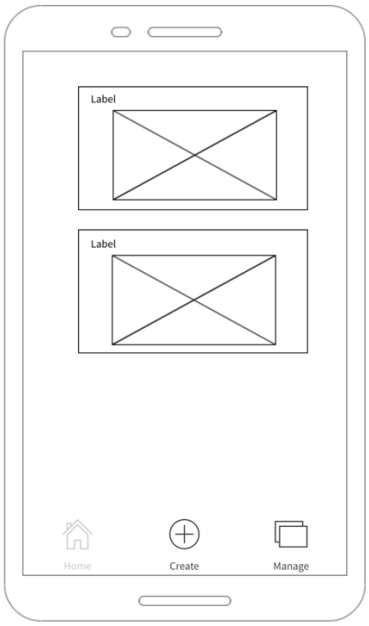
Wireframes



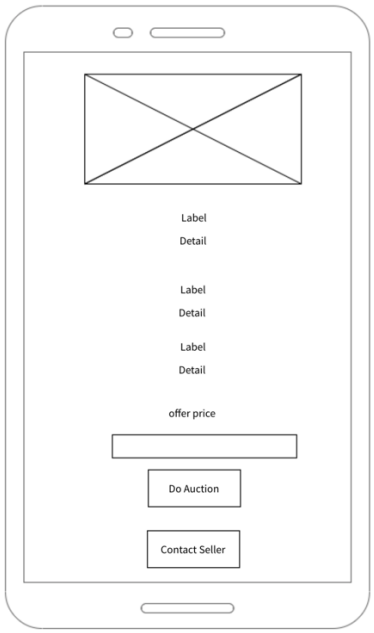
Login



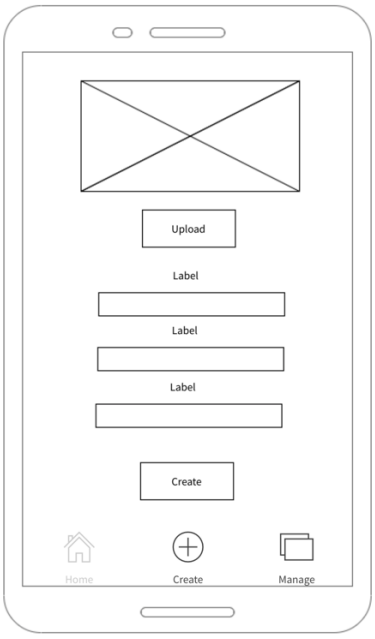
Register



Main – auction list

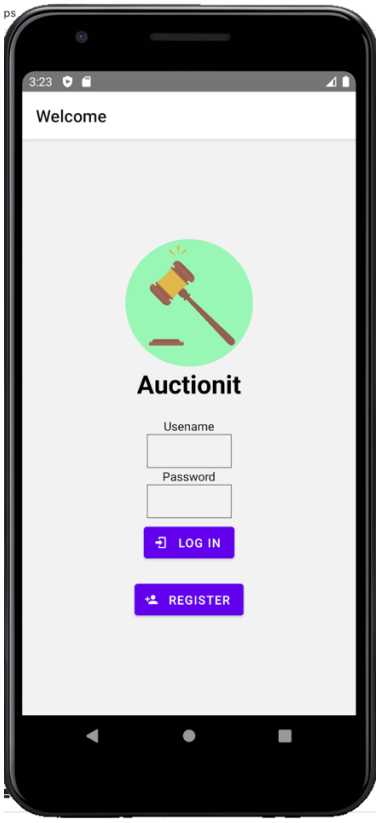


Auction detail

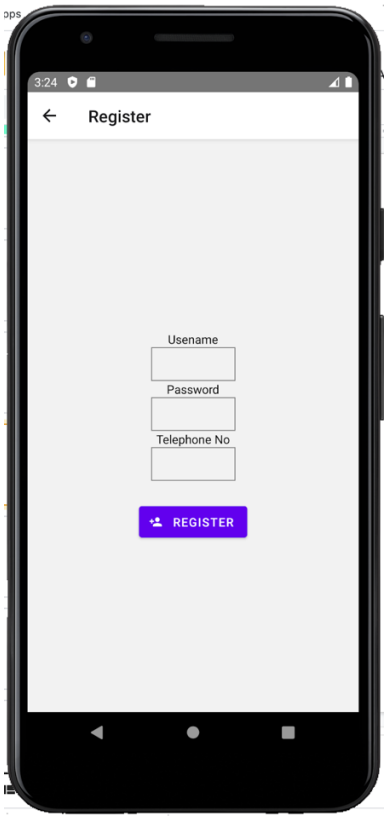


Auction creating

Mockup

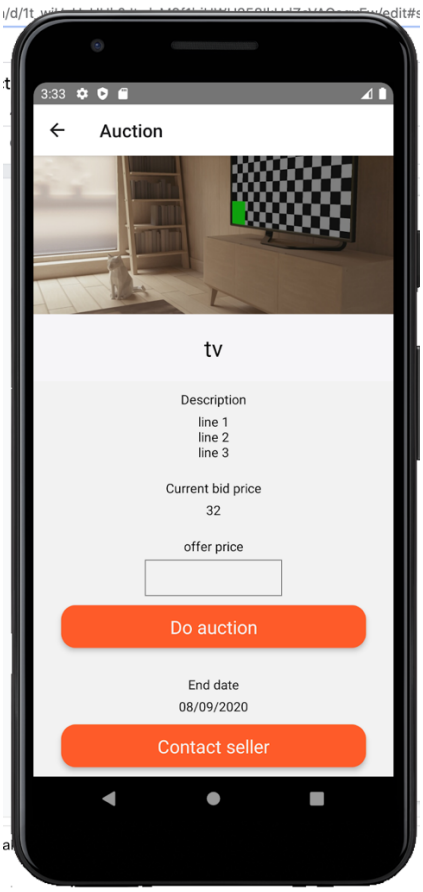


Login

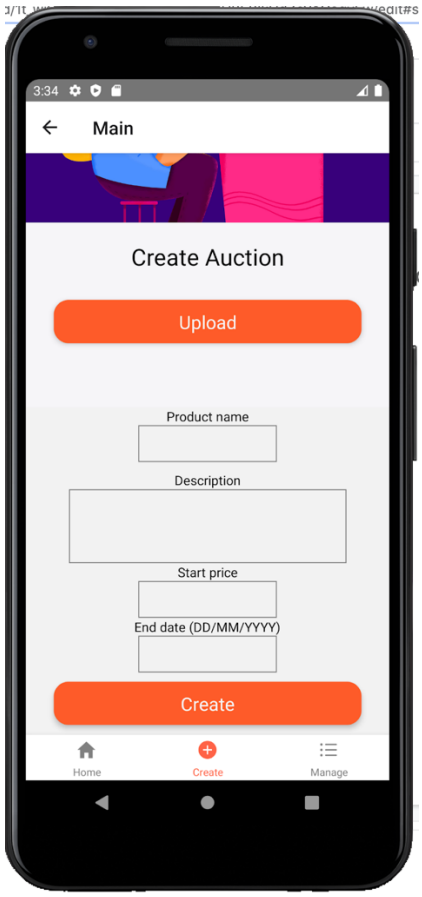


Register

Main – auction list



Auction detail



Auction creating

List of known problem

- Design UI
- Back-end connection
- Back-end microservices to connect other service provider
- Log in and register function
    - User database service
- Auction create function
    - Auction database service
    - Picture file upload service

Implementation

Design UI

- This project uses React-native-paper and React-native-vector-icons to design UI which can implement by following Google's Material Design guidelines.
- React-native-image-picker is the tool for image management to get the picture file from the devices when user want to upload picture.
- Application's page navigation is managed by React-navigation. The framework can provide the page routing and bottom tab bar configuration.

Back-end connection

- The application will connect to the server via Axios microservice which uses the RESTFul APIs. The data submission can be sent by POST method then get the response from server, on the other hand, the data calling to the server can be done by GET method with specific URL to get the data.

Back-end microservices to connect other service provider

- The server side will use the Promise API to manage the connection between server and the specific service provider which use Express microservice.

Log in and register function

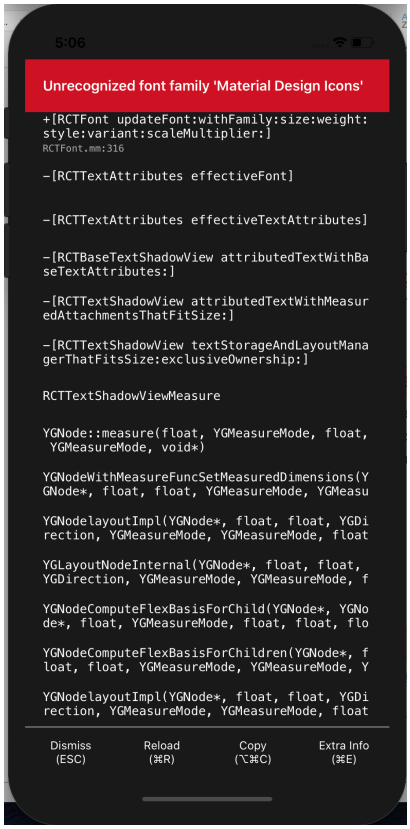
- On the server side, the MongoDB will be use for database management. The application can use MongoDB API for database organization such as query, create, or update user's database.
- The data which get from the server to the application is in the JSON from so this is the convenient way to handle and implement it in further.

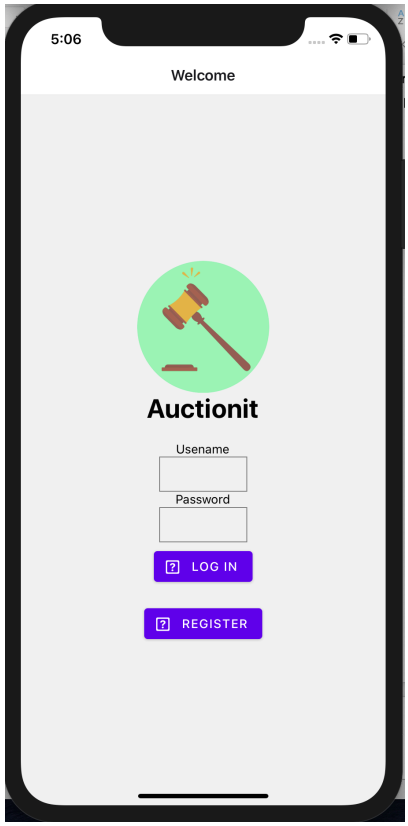
Auction create function

- For the auction details such as name, price, due date, etc. it will be keep and manage in the MongoDB data base like the user detail.
- The application use Cloudinary services for cloud picture uploading. To connect to the service, the application use Axios microservice via POST method to send the image detail in JSON file format to the Cloudinary server. Then after picture is completely uploaded, The Cloudinaty server will send back the picture URI back to the application server which can be sent to the user application for the further display.

Project Problem's implementation

- This project use react-native-vector-icons for UI implementation. Unfortunately, this service didn't fully compatible with the iOS platform so in the application building, the complier shows some error for compile and if the application still can be built and install, the icon in the application will be shown like this:





GitHub repository

https://github.com/jguzaa/AuctionitApp

https://github.com/jguzaa/auctionitServer