TOP-G Auctions (Online Auction System)

## Reg no: SCCI/00777/2019

## Reg no: SCCI/00773/2019

## For: IBL 3301 System Development Lab Assignment

## PROJECT SCOPE

## October 27, 2022

## Project Background and Description

Top-G Auctions is a web application that grants individuals an online auction means for high end products. There is recent demand for online auctioning sites due to geographical location of goods that are in high demand that can’t be accessed physically because of the pandemic hence Top G Auctions being a solution.

It is initiated by the individual intending to sell and once the seller has made the decision on what to auction they can edit the product’s details (auction) till it is in the draft state. The seller has the authority to define the beginning and the end of the bid date.

Once the products auction is published then the bidding process starts. Buyer should then have notifications on any changes on a current products auction.

## Scope

The Web application should be applicable to all relevant smart devices that have internet access. Each Member and Management user should be able to have access to the application using. Smartphones and Smart devices e.g. IPad, Laptops and Desktops.

The application constitutes of three major modules

1. User’s module
2. Inventory Management Module
3. Shopping cart and Payment Gateway module

## Modules

**User’s module**

This is where all functions related to users interfacing with the website is generally located together with the Login and registration. This is where users can add products and admins can delete products when requested by the owner of a lot item. Users are also able to browse items in the displayed catalogue and choose to view the item and place bids. There is also a communication mechanisms through for buyers to interact with the sellers of lot items

**Inventory module**

When the firebase Api has been initialized and loads the specified catalogue, different capabilities are enabled with this view. There is the display of different catalogues based on the owners products which. There is also display of the delete requests catalogue where admins approve delete requests. The products descriptions are also enabled through interaction with this module to view the specified lot items

**Shopping Cart and Checkout/Payment module**

All possible items for buying are placed in this module where a user can proceed with the items or remove them from their shopping cart. The payment Api interaction with the system is also located here where when payment is due on the deadlines the buyer is able to select a payment method and the different payment APIs takeover to fulfill a transaction and notify payment to the seller.

## The Affected

**PARTIES**

*Management*

The Administration is affected in terms of approvals of items submitted for deletion and notifying individuals who have won the auction.

*Members*

They are the sole purpose of the website and they conduct the main operations in the website, this is the buying and selling of the products posted on the website.

**BUSINESS PROCESSES**

*Member Registration*

Data updating and constant maintenance of the members interacting with the website is monitored during sign in, sign out and last but not least registrations.

*Financial Transactions*

Exchange of funds between the buyer and the seller is a high requirement monitoring by the website

*Management*

They monitor the progress of goods and maintain the records displayed on the home page of the web application

## High Level Requirements

It will be a web based application with availability to access by internet capable devices

The Application will**:**

1. Allow any new Member Registration.
2. Availability for 24/7 log-in and log-out.
3. Provide live database and interface for viewing auctions.
4. Ability to place bids and add products for bidding.

## Deliverables

* Low fidelity prototype showcasing design
* Flow Charts
* High fidelity Prototype showing in-depth functionality
* Technical and Specification documentation
* Member’s web based application accessible.

## Exclusions

Integration or direct connections with active/existing live payment mechanisms (API) such as Visa, MasterCard, Paypal, Mpesa and the such.

Communication platform for between members and also between the management and the members themselves.

Notifications API for notifying of deadlines reached or updates made on the website.

## Implementation Plan

There will be an initial low fidelity Prototype to provide the designer with mental model of the project. Once the 1st prototype is done an iteration of Evaluation and testing will be done on the different phases of the Prototype development.

This goes hand in hand with the throwaway prototype that will be used to achieve the final product. Which will now usher in the presentation of the high fidelity prototype.

## Schedule

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| --- | --- | --- |
| **Date** | **Description** | **Comments** |
| 22/10/22 – 27/10/22 | Specification documentation | Completed well awaiting possible feedback |
| 26/10/22 – 27/10/22 | Flow charts | Completed well |
| 26/10/22 – 27/10/22 | Low fidelity prototype Design | Great design |
| 27/10/22 – 31/10/22 | Creation of first Login and Registration Page |  |
| 14/11/2022 – 16/11/2022 | Login and Registration page with database connections |  |
| 16/11/2022 – 17/11/2022 | Design of the home page | Great implementation of planned design |
| 17/11/2022 – 18/11/2022 | Creating the add product page and connections with firebase real-time database |  |
| 19/11/2022 | Configuring of the firebase storage API for products image storage |  |
| 19/11/2022 – 22/11/2022 | Debugging of all errors made in firebase database console connection | Took a lot of time |
| 28/11/2022 | Additional interface mechanisms added | Quite engrossing |
| 1/12/2022 – 12/12/2022 | Firebase database adjustments, added admin configuration and approval (delete)section |  |