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| Trading Card Explosion Entices eBay to Expand its Efforts  Project Specification – Final Assignment – Card Bidders  Due Date: December 12th 2021 | Abstract  This is to explain the functions and purpose of the Card Bidders application for the final assignment of Mobile Applications II.  Justin Harvey  PROG3210 |

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# Application Name

Card Bidders 2021

# Purpose

Card Bidders was designed as a mobile application for the purpose of auctioning and bidding on trading cards. The auctions are broken down into four types of cards: Magic the Gathering, Sports cards, Comic Book themed cards and Pokémon trading cards. Users of the application can view auctions of each type of card and place a bid on them. Users can also view other bids, try out the fortune teller game which generates a random fortune for the user from three options, learn more about the types of cards or view other user’s bids on cards. All bids are accepted over the starting amount listed on the auction.

# Main Activity – Title Page

Calendar

Description automatically generated Text

Description automatically generated

*Figure 1*

The above image in Figure 1 shows the main title page users are presented with upon launching the card bidder application. The user sees the title and an explanation of the application’s uses and after scrolling down are buttons to navigate through other activities including:

* Place A Bid
* View active Bids
* About the Cards
* Feedback
* Fortune Teller

These activities will be explained in further detail throughout this document.

**Technical Elements Used:**

* Widgets
* Linear Layout
* Also available in Landscape view

# Application Menu

Shape, rectangle

Description automatically generated

*Figure 2*

Graphical user interface, text, application, chat or text message

Description automatically generated

*Figure 3*

The application menu shown closed in Figure 2 and open in Figure 3 allows for further navigation through the application. The card icon next to the three dots will allow the user to return to the home page. The menu when opened has the option to also return to the main menu, move to the auctions page, move to the active bids page and to move to the feedback page.

**Technical Elements Used:**

* Menus

# Auctions Page

Chart

Description automatically generated with medium confidence

*Figure 4*

Figure 4 shows the Auctions page which is navigated to by clicking the Place A Bid button on the main title page. This page gives the user a list of options in what type of auction they would like to look at. The options provided are to view auctions for Magic, Sports, Comic Book and Pokémon cards.

**Technical Elements Used:**

* Widgets
* Card Bidders 2021 Theme
* Also available in Landscape view

# Magic, Sports, Comics and Pokémon Auctions Page

Graphical user interface

Description automatically generated Graphical user interface, website

Description automatically generatedGraphical user interface, website

Description automatically generated Graphical user interface, application

Description automatically generated

*Figure 5*

The above Figure 5 shows the four different auction types that can be navigated to from the auctions page by selecting one of the buttons on the page. Each auction is shown in a Recycler view and clicking on it will move to the auction details page for the clicked-on auction.

**Technical Elements Used:**

* Widgets
* Also available in Landscape view

# Auction Details Page

A picture containing letter

Description automatically generated

*Figure 6*

The above image in Figure 6 shows the auction detail page. This page would be presented to the user when they click one of the auctions on the previous page. This page populates with an image of the card, the title, a description and the price. These items change depending on the auction selected by the user form the previous page. There is also a button Bid On This Card which allows for navigation to the bid placement page.

**Technical Elements User:**

* Widgets
* Linear Layout
* Also available in Landscape view

# Bid Placement Page

A picture containing chart

Description automatically generated A picture containing chart

Description automatically generated

*Figure 7*

Figure 7 shows the bid placement page which is navigated to by selecting the Bid On This Card button from the auction details page. The first two EditText fields are populated with the name of the card from the auction, and it’s listed price. The other field are for the user to fill in with their name, email address and their bid amount. There is a warning to the user to only place their big in whole dollars. Once the information is entered the user clicks the Bid On This Card button at the bottom of the page the information is then written to the database table for bids. After this action is completed, the user receives a notification thanking them for bidding and are redirected to the main page.

**Technical Elements Used:**

* Widgets
* Linear Layout
* Notifications
* SQLite Database Actions
* Also available in Landscape view

# View Active Bids Page

Text, letter

Description automatically generated

*Figure 8*

Above in Figure 8 is shown the view active bids page. This page can be reached through the menu or the View Active Bids button on the title page. This page displays each bid record written to the database in a formatted TextView.

**Technical Elements Used:**

* Widgets
* Linear Layout
* Also available in Landscape view

# About Page

Graphical user interface

Description automatically generated with low confidence Graphical user interface, website

Description automatically generated Graphical user interface

Description automatically generated with low confidence

*Figure 9*

The above Figure 9 shows the About page and two of the four fragments that would be displayed to the user when they select the buttons on the page. This page is designed to give the user some information about the types of cards which are being auctioned on the application. Shown in Figure 9 is what is displayed for selecting the Magic: The Gathering button and the Comic Book Cards button.

**Technical Elements Used:**

* Widgets
* Linear Layout
* Fragments
* Also available in Landscape view

# Feedback Page

Text

Description automatically generated with medium confidence Graphical user interface, text, application

Description automatically generated

*Figure 10*

Figure 10 shows the Feedback page which can be reached through the menu or by clicking the Feedback button on the main page. This page is designed to gather user feedback on their opinion of the application. The page uses a radio group and radio buttons to let the user select a preference of how much they like the application. There is a seek bar allowing the user to rate the application out of 100. The Time Feedback Placed presented the user with a date and time picker to select when the feedback was submitted. Selecting the Submit button presents the user with an alert dialog box thanking them for their feedback.

**Technical Elements Used:**

* Widgets
* Table Layout
* Material Design Components (Date/Time Picker and Alert Dialog Box)
* Also available in Landscape view

# Fortune Teller Page

Graphical user interface

Description automatically generated A screenshot of a video game

Description automatically generated with medium confidence

*Figure 11*

Figure 11 above shows the fortune teller page which can be reached by selecting the Fortune Teller button on the main page. This page was created for the user so that when the click the Get Your Fortune Button an image is generated with a tarot card and a description of their fortune is loaded into the TextView below. The fortune is generated based on a random number that results in one of three fortunes.

**Technical Elements Used:**

* Widgets
* Table Layout
* Threads
* Card Bidders 2021 Theme

# APK Loaded to Amazon Developer

Graphical user interface, text, application, email

Description automatically generated

# Application Submitted to Android Developer

Graphical user interface, text, application

Description automatically generated