Individual Assignment: MovieRentalApp

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Individual Assignment: MovieRentalApp

This is a project is the Individual Assignment for The Mobile Application Development Module at the University of Buckingham, School of Computing, taught by Nasir Ibrahim

App Description

MovieRentalApp, provides its users an easy-to-use interface to rent the latest movies. A user can rent a movie as a digital or physical copy, via streaming or receiving a DVD. The user can add multiple Movies to her Cart, as well as update and edit their Cart, before checking out.

User requirements

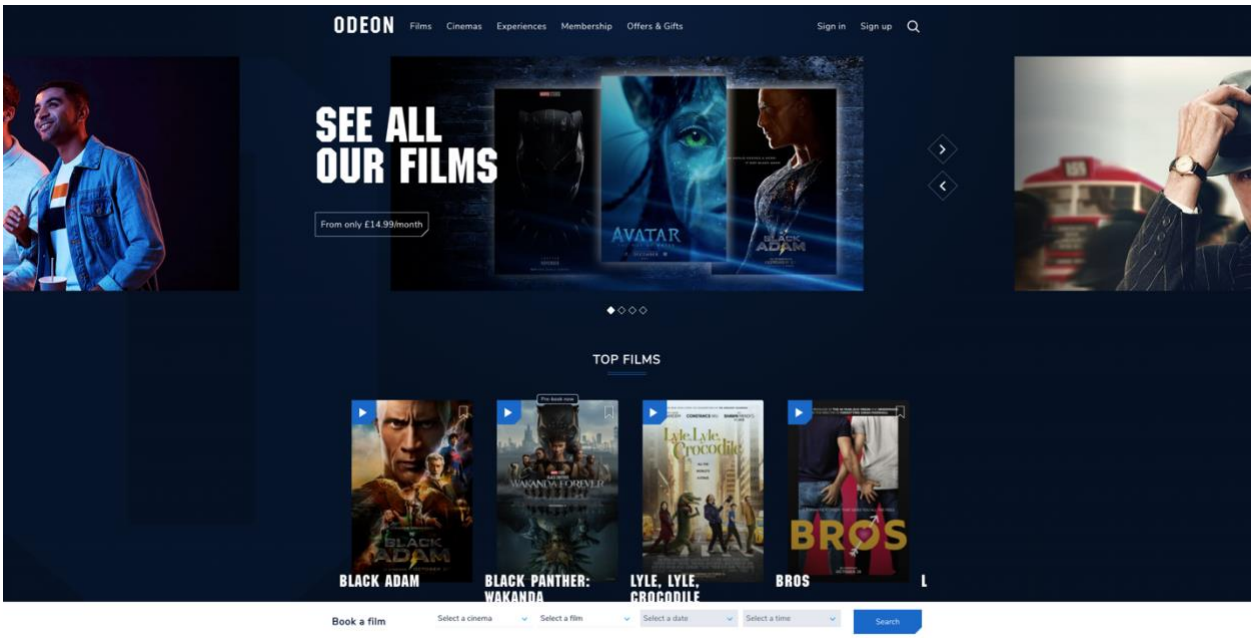
The target user audience are mobile users. Who are keen movie fanatics, they want to be able to quickly and easily see all the latest movies that are available to rent. The users also want to be able to select weather they want to rent a physical or digital copy and how long they want to rent it for. Once the users have selected their Movie order, they want to be able to update, edit and remove them from a Cart. Once the user is happy they want to proceed to a checkout area, where they can proceed to enter their information for rent completion. Another target audience the MovieRentalApp has is the Administration Team, who want to be able to add, update and remove movies from the database.

Application Functions.

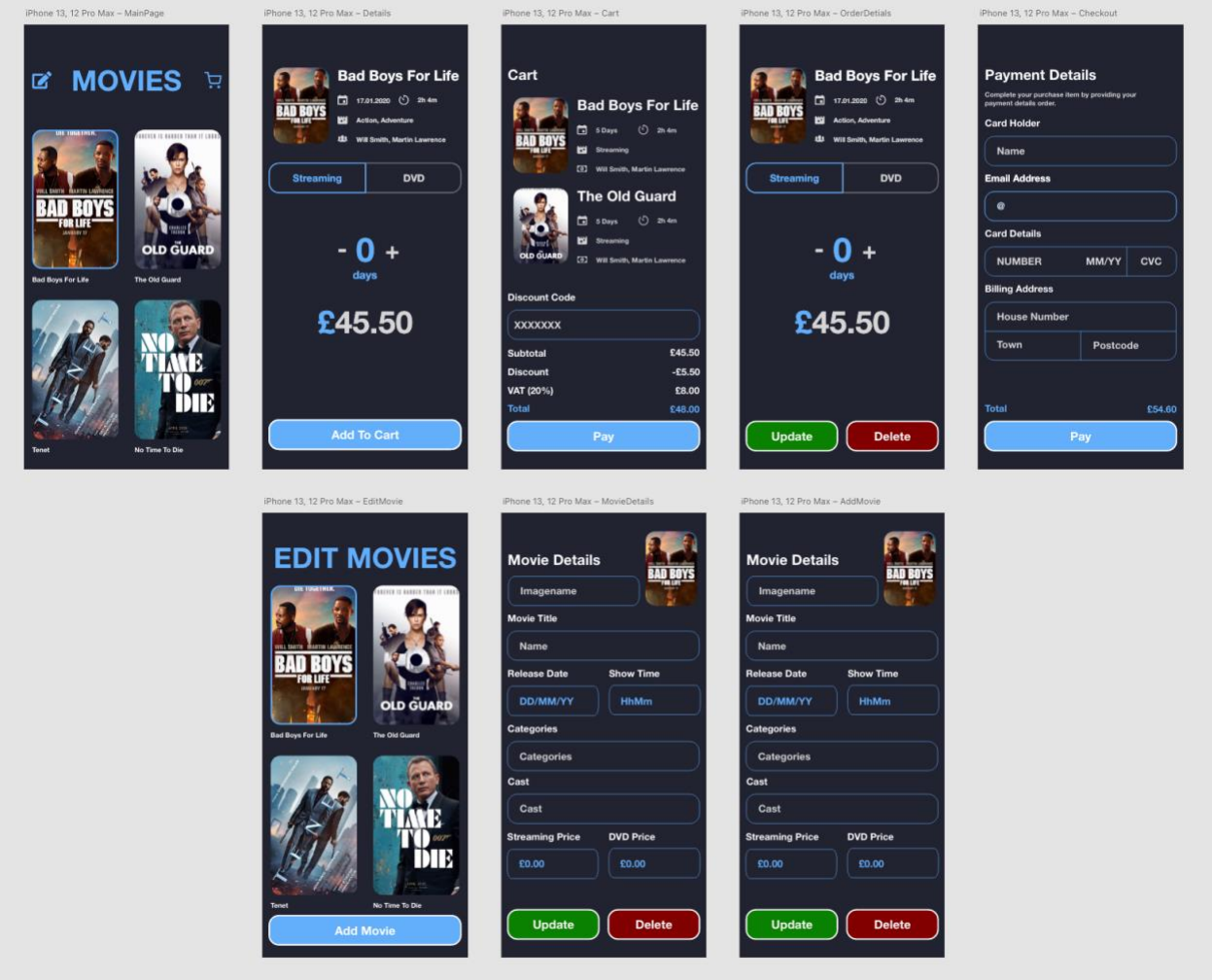
- Customer Functions
  - View Movies
  - Select Movie
  - Select Movie Rental Details
    - Order Type (Digital or Physical)
    - Number of Days
  - See Price
  - View Cart
  - Edit Rentals in Cart
  - Checkout
- Admin Functions
  - View Movies
  - Edit Movies
  - Add Movies

Designs.

As the target customer audience are keen movie fanatics, in order to continue with Cinema aesthetic. I decided to design the app off Odeon cinemas color scheme.

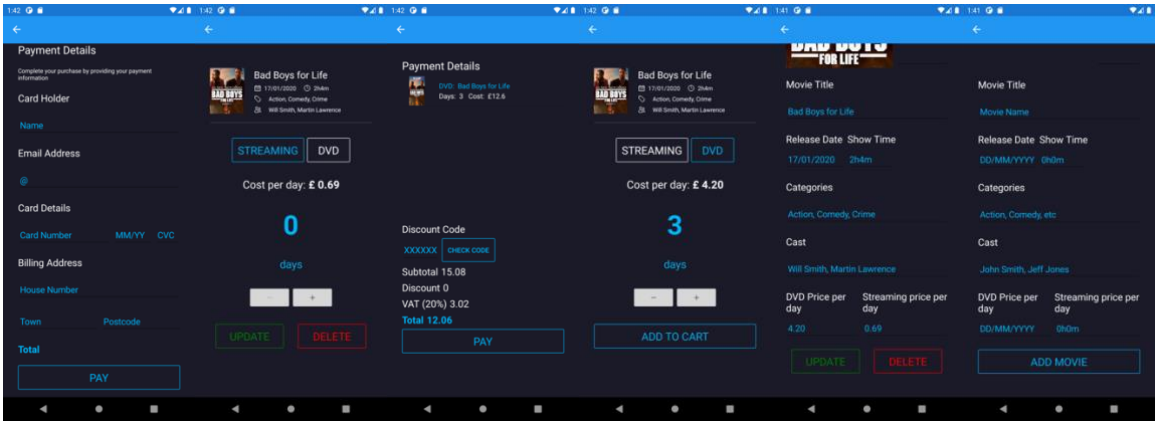


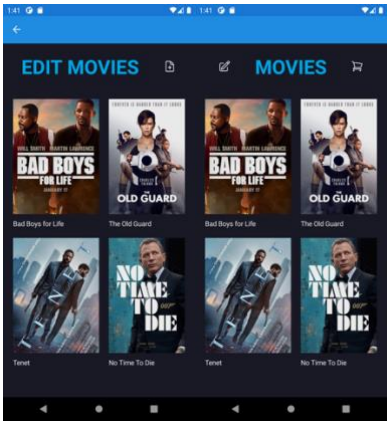
Above is a screen shot of their current website, where their main colors are dark blue, light blue and white. Following with Odeon's color scheme a Wireframe of the application was created in Adobe XD.



In the screenshot above of the wireframe of the MovieRentalApp, there is 8 pages, 5 customer focused and 3 Admin focused.

Prototypes


Payment Details
Card Holder
Name
Email Address
Card Details
Billing Address
House Number
Town
Postcode
Total
PAY
Bad Boys for Life
STREAMING
DVD
Cost per day: £ 0.69
0
days
UPDATE
DELETE
Payment Details
Discount Code
XXXXXX
CHECK CODE
Subtotal 15.08
Discount 0
VAT (20%) 3.02
Total 12.06
PAY
Bad Boys for Life
STREAMING
DVD
Cost per day: £ 4.20
3
days
ADD TO CART
Movie Title
Bad Boys for Life
Release Date
Show Time
17/01/2020
2h4m
Categories
Action, Comedy, Crime
Cast
Will Smith, Martin Lawrence
DVD Price per day
Streaming price per day
4.20
0.69
UPDATE
DELETE
Movie Title
Movie Name
Release Date
Show Time
DD/MM/YYYY
0h0m
Categories
Action, Comedy, etc
Cast
John Smith, Jeff Jones
DVD Price per day
Streaming price per day
DD/MM/YYYY
0h0m
ADD MOVIE


EDIT MOVIES
MOVIES
BAD BOYS FOR LIFE
OLD GUARD
NO TIME TO DIE
Bad Boys for Life
The Old Guard
Tenet
No Time To Die

How it works

There are 4 classes,

Ticket, containing all data on a movie

Tickets, collection of tickets using ObservableCollection

Order, containing information on what movie and rental details

Orders, collection of orders using ObservableCollection

Using global functions along with get and set functions, the pages can set and get data from objects within collections.

The Database for movies has been loaded with 4 movies, and there is 1 test item in the checkout. However both the Tickets (movie) collection and Ordes collection, have the ability for CRUD operations to be completed on them.