Contents

1. Project Details
2. Introduction
3. Project Overview
4. Architecture
5. Features Deployment
6. References

1.Project Details

Course: BSc (Honours) in Software Development

Module: Professional Practice in IT

College: Galway Mayo Institute of Technology

Students: Andreas Fahey and Joseph Griffith

Project Supervisor: Martin Kenirons

Module Supervisor: Damien Costello

Project Title: AJCinemas



2.Introduction

This project was part of the module Professional Practice in IT in the Course Software Development in GMIT.

The purpose of doing this project as part of the module was to give the us, the students a chance to design and develop a project and deliver a piece of software inside the time provided and in a high standard manner.

In this project we were asked to develop an application or program that connects to a database of our choosing and stores data from it.

We were asked to deliver a working application with an active database that co insides with the code to produce a working project.

3.Project Overview

We decided to build a web application that will have a user login and register. Once an login is made the user will then be able book tickets to go see a movie from the past or present. (Limited options as there are so many movies).

The project was decided upon when we agreed to use Ionic 4/Angular 7 and Firebase to produce an application. We narrowed it down to an online cinema booking web application.

Once agreed on the project to pursue, we then started to plan out pages and functionality of the project. We decided to go with a login and register and a CRUD system for booking a ticket with a firestore firebase database.

When all agreed upon, we set up our GitHub repository.

A close up of a logo

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4.Architecture

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A screenshot of a cell phone

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The architecture of this app uses Ionic/angular as the front end (styling the pages, HTML, etc... while it uses firebase as the backend for the database as well as the server.

5.Features & Deployment

The Main Features of this Ionic Web Application:

* User can register their own account.
* User can log in to an existing account.
* User can look at movie timetable.
* User can then book a ticket by clicking “Book Tickets” and entering the film, time, row and seat number.
* User can look at Latest Movies and book from there.
* User can look at classic movies and book from there.
* User can pre book tickets for a movie not currently there.
* User can view upcoming movies and pre book if available to do so.
* User can update info in case of human error of entering wrong details.
* User can navigate through pages.
* User can slide the sliders on dashboard page.
* User can log out of account.

Deployment of the project:

1. Download or Clone the Repository from GitHub.
2. npm install any packages needed such as angular, firebase etc.
3. ionic serve the project and begin use.

6.References

Connecting Ionic 4 and firebase in VS Code*.*

<https://devdactic.com/ionic-4-firebase-angularfire-2>

Implementation of log in and registration with firebase.

<https://www.freakyjolly.com/ionic-4-firebase-login-registration-by-email-and-password/>

Custom Logo.

<https://www.freelogodesign.org/>

Design Help for Project.

<https://ionicframework.com/docs/>

Design Ideas

<https://www.eyecinema.ie/>

CRUD with Ionic and Firebase.

<https://www.freakyjolly.com/ionic-4-crud-operations-using-firebase-and-firestore-database-tutorial-in-ionic-4-with-angular-7/>