Functional requirements

All actors in our system are able to do the following :

1- login

2- register

3- view and edit profile

The director should be able to do the following :

1- start (add) a new artwork

2- choose all the actors for an artwork

3- start (add) a new scene within an artwork

4- choose a filming location for a scene

5- choose actors for a scene from the actors of the artwork

6- view details of a filming location

7- view details of an actor

8- finish a scene

9- finish an artwork

10- search and filter on actors

11- search and filter on filming locations

12- generate a story board for a scene

13- apply lips sycronization for a text on a scene video

14- apply chroma on a picture from a scene

15- generate advertisement

16- تحديد موقع الكاميرا

17-

The actor should be able to do the following :

1- add an artwork to his artwork gallary

2- change his availabilty for acting

3- change current living country

4- approve or reject a request for joining an artwork

5-

The location owner should be able to do the following :

1- add filming location

2- browse all his filming locations

3- modify booking dates for a location

4-

Non-functional requirments :

1- Availability

2- Performance

3- Security

Uce case specification

1) Start new artwork

|  |  |
| --- | --- |
| Start new artwork | use case name : |
| Logged in as director | Pre conditions : |
| - | Post conditions : |
| director | Actors : |

|  |  |
| --- | --- |
| System | **Flow of activities :**  Actor |
|  | 1) click add new artwork |
|  | 2) enter the artwork details ( title – poster ) |
|  | 3) click add |
| 4) save artwork in DB |  |

2) Add filming location

|  |  |
| --- | --- |
| add filming location | use case name : |
| Logged in as location owner | Pre conditions : |
| - | Post conditions : |
| Location owner | Actors : |

|  |  |
| --- | --- |
| System | **Flow of activities :**  Actor |
|  | 1) click add new location |
|  | 2) enter the location details ( location – detailed address – description – building type – building style –video – photos ) |
|  | 3) click add |
| 4) save location in DB |  |

|  |  |
| --- | --- |
| System | **Exception of conditions :**  Actor |
| 1) | 1) |

3) add artwork to work gallary

|  |  |
| --- | --- |
| add artwork to work gallary | use case name : |
| Logged in as actor | Pre conditions : |
| - | Post conditions : |
| actor | Actors : |

|  |  |
| --- | --- |
| System | **Flow of activities :**  Actor |
|  | 1) click view artwork gallary |
| 2) return all artwork in the actor gallary from database |  |
|  | 3) click add artwork |
|  | 4) enter the artwork details (artwork name – poster – character name – role type ) |
|  | 4) click add |
| 5) save location in DB |  |

4) Edit specific location bookings

|  |  |
| --- | --- |
| Edit specific location bookings | use case name : |
| Logged in as a location owner | Pre conditions : |
| - | Post conditions : |
| Location owner | Actors : |

|  |  |
| --- | --- |
| System | **Flow of activities :**  Actor |
|  | 1) click view my locations |
| 2) return all locations owned by the location owner from database |  |
|  | 3) choose a location |
| 4) return all details about this location |  |
|  | 5) click edit booking date |
|  | 6) modify the booking dates |
|  | 7) click save |
| 5) update booking dates of the location in DB |  |

Test cases

1) add filming location

|  |  |
| --- | --- |
| #TS01 | Test unit Id |
| Add filming location | Title |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pass / Fail | Actual Results | Expected Results | Test data | Test steps | Test scenario | Test case id |
| Pass | As expected | Add the location to the app and navigate the user to the home page to view all of his locations | الموقع : "مشروع دمر"  العنوان بالتفصيل : "مشروع دمر الجزيرة 10 "  الوصف: " شقة مكونة من 3 غرف و صالون مع اطلالة على حديقة "  نوع البناء :""  نمط البناء: "" | - location owner log in to the app  - click on add location  "اضف موقع "  - enter required fields  - click add | Location owner open the app and add a new filming location | TU01 |

2) Add artwork to work gallery

|  |  |
| --- | --- |
| #TS02 | Test unit Id |
| Add artwork to work gallery | Title |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pass / Fail | Actual Results | Expected Results | Test data | Test steps | Test scenario | Test case id |
| Pass | As expected | Add the artwork to the actor artowk gallery and navigate the user to the home page to view all of his artworks | اسم العمل : "القدر"  االبوستر: صورة من الجهاز  اسم الشخصية: "تالا" | - actor log in to the app  - click on add button  "اضف عمل "  - enter required fields  - click add | Actor open the app and add a artwork to his artwork gallery | TU02 |

3) generate story board for a scene within an artwork

|  |  |
| --- | --- |
| #TS03 | Test unit Id |
| generate story board | Title |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pass / Fail | Actual Results | Expected Results | Test data | Test steps | Test scenario | Test case id |
| Pass | As expected | View an image that is related to the description entered in the form | وصف المشهد :"رجل يمشي على شاطئ البحر و أطفال يلعبون بالرمال الذهبية تحت اشعة الشمس" | - director log in to the app  - click on an artwork  - click on a scene  - click on AI tools in the right bottom side  -click on story board  "ستوري بورد"  -enter required fields  -click generate | director open the app and navigate to a scene within an artwork then use story board AI tool | TU03 |

4) search in actor list

|  |  |
| --- | --- |
| #TS04 | Test unit Id |
| Search for an actor | Title |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Pass / Fail | Actual Results | Expected Results | Test data | Test steps | Test scenario | Test case id |
| Pass | As expected | View a list of actors all contain the name entered in the search field | بحث : "وائل" | - director log in to the app  - click on actors icon in bottom bar  -enter required name to search abouut in search box  -click search  "بحث" | director open the app and navigate to the actors page and search for a specific name | TU04 |

Technologies

1) flutter

Flutter is an open source framework for building beautiful, natively compiled, multi-platform applications from a single codebase.

Ref: https://flutter.dev/

Flutter offers a set of features that make it a good choice. First of all, flutter employs the dart programming language, which is simple to learn and enables you to create high-quality apps .Secondly, Flutter’s hot reload option enables quick and simple app modifications without requiring a restart. Additionally, Flutter apps are compiled into native code to provide the most incredible possible performance on both iOS and android. Furthermore, Flutter’s UI elements are built using the same principles as Google’s Material Design guidelines, providing a versatile and expressive approach to designing a beautiful app. Lastly, Flutter is an open-source project. You can use it for free and help shape the development of the platform. Considering all of these factors, flutter is a good choice that help you create high-quality apps that meet your requirements and exceed expectations.

The version used in this project is

Ref: <https://medium.com/@copperchips/what-is-flutter-and-what-are-its-uses-90ae2ff29e71>



2) django

Django is a high-level Python web framework that encourages rapid development and clean, pragmatic design. Built by experienced developers, it takes care of much of the hassle of web development, so you can focus on writing your app without needing to reinvent the wheel. It’s free and open source.

Ref: https://www.djangoproject.com/

Django is Ridiculously fast , Fully loaded because it includes dozens of extras you can use to handle common web development tasks, also it is reassuringly secure because it takes security seriously and helps developers avoid many common security mistakes, such as SQL injection, cross-site scripting, cross-site request forgery and clickjacking. Its user authentication system provides a secure way to manage user accounts and passwords.

Django is exceedingly scalable, Some of the busiest sites on the planet use Django’s ability to quickly and flexibly scale to meet the heaviest traffic demands, and it is Incredibly versatile companies, organizations and governments have used Django to build all sorts of things from content management systems to social networks to scientific computing platforms.

Ref: <https://www.djangoproject.com/start/overview/>

The version used in this project is



3) python

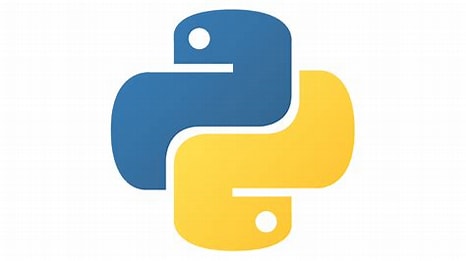
Python is a programming language that is interpreted, object-oriented, and considered to be high-level too. Python is one of the easiest yet most useful programming languages which is widely used in the software industry. People use Python for Competitive Programming, Web Development, and creating software. Due to its easiest syntax. Its demand is growing at a very rapid pace due to its vast use cases in Modern Technological fields like Data Science, Machine learning, and Automation Tasks. For many years now, it has been ranked among the top Programming languages.

Python has plenty of features that make it the most demanding and popular .Firstly, Easy to read and understand .Secondly, it is an interpreted and object-oriented programming language, free and open-source, versatile, extensible, multi-platform, hundreds of libraries and frameworks and has a huge and active community.

These state the reasons why you should choose Python.

The version used in this project is

Ref: <https://www.geeksforgeeks.org/what-is-python/#features-of-python>



4)mySql

**MySQL** is an**open-source, Relational Database Management System** that stores data in a structured format using **rows** and **columns**. It’s software that enables users to **create**, **manage**, and manipulate databases. Developed by **MySQL AB**, which is now owned by **Oracle** Corporation, MySQL is renowned for its reliability, scalability, and ease of use.

MySQL is [open-source](https://www.geeksforgeeks.org/introduction-to-open-source-and-its-benefits/) software, optimized for performance, making it capable of handling **high-volume transactions** and large datasets efficiently.  MySQL can scale both **vertically** and **horizontally** to accommodate growing data and user loads. You can add more resources to a single server or distribute the workload across multiple servers using techniques like [sharding](https://www.geeksforgeeks.org/what-is-sharding/" \t "_blank) or [replication](https://www.geeksforgeeks.org/data-replication-in-dbms/). MySQL provides robust **security features** to protect your data, including access controls, encryption, and auditing capabilities. With proper configuration, you can ensure that only authorized users have access to sensitive information. These several reasons make MySQL a popular choice for managing **relational databases.**

**Ref:** <https://www.geeksforgeeks.org/what-is-mysql/>



Tools

1) Vscode

Visual Studio Code combines the simplicity of a source code editor with powerful developer tooling, like IntelliSense code completion and debugging.

First and foremost, it is an editor that gets out of your way. The delightfully frictionless edit-build-debug cycle means less time fiddling with your environment, and more time executing on your ideas.

Visual Studio Code supports macOS, Linux, and Windows. It features a lightning fast source code editor, perfect for day-to-day use. With support for hundreds of languages, VS Code helps you be instantly productive with syntax highlighting, bracket-matching, auto-indentation, box-selection, snippets, and more. Intuitive keyboard shortcuts, easy customization and community-contributed keyboard shortcut mappings let you navigate your code with ease. For serious coding, you'll often benefit from tools with more code understanding than just blocks of text. VS Code also integrates with build and scripting tools to perform common tasks making everyday workflows faster. VS Code has support for Git so you can work with source control without leaving the editor including viewing pending changes differences.

Ref: https://code.visualstudio.com/Docs/editor/whyvscode#\_available-for-macos-linux-and-windows



2) Insomnia

Kong Insomnia is a collaborative open source API development platform that makes it easy to build high-quality APIs — without the bloat and clutter of other tools.

Kong Insomnia has 350+ open source plugins, Beautiful APIs built with ease,Local Vault or Git Sync, Multi-protocol support so you can create, organize, share and execute HTTP, REST, GraphQL, gRPC, SOAP or WebSockets requests without app switching.

It also supports organizations and E2EE, so it Boost team collaboration. Sync all files and projects between devices, all fully encrypted.

Ref: https://insomnia.rest/



3)google colab

Colab is a hosted Jupyter Notebook service that requires no setup to use and provides free access to computing resources, including GPUs and TPUs. Colab is especially well suited to machine learning, data science, and education.

Ref: https://colab.google/

With Colab you can harness the full power of popular Python libraries to analyze and visualize data.

Colab notebooks execute code on Google's cloud servers, meaning you can leverage the power of Google hardware, including GPUs and TPUs, regardless of the power of your machine. All you need is a browser.

Ref: https://colab.research.google.com/#scrollTo=Wf5KrEb6vrkR



4)GitHub

**GitHub** is a web-based platform that uses Git, a version control system, to help developers manage and track changes in their code. It allows multiple people to collaborate on a project, track revisions, and contribute to code from anywhere in the world. GitHub offers both free and paid plans, catering to individuals and large organizations alike.

Ref: https://www.geeksforgeeks.org/introduction-to-github/



5) Mysql workbench

MySQL Workbench is a unified visual tool for database architects, developers, and DBAs. MySQL Workbench provides data modeling, SQL development, and comprehensive administration tools for server configuration, user administration, backup, and much more. MySQL Workbench is available on Windows, Linux and Mac OS X.

Ref: https://www.mysql.com/products/workbench/

