**Acceptance Criteria**

**TAC2 - As a user, I want to be able to access a website so that I have a platform to buy products off**

* Functional client application
* Functional application server
* Functional relational database
* Client application, application server and database can successfully communicate

**TAC8 - As a non-registered user, I want to register an account so that I can have a profile which recommends me to suitable items**

Data Input:

* *Email Address* is collected and stored
* *Password* is collected and stored
* *First Name* is collected and stored
* *Last Name* is collected and stored
* *Gender* is collected and stored
* *Date of Birth* is collected and stored
* *Country* is collected and stored

Data Validation:

* **Given** that *Email Address* is left undefined or fails RegEx testing **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Password* is left undefined or is less than 8 characters or isn’t alphanumeric **when** the user blurs the input or attempts to submit **then** an appropriate error message is displayed
* **Given** that *First Name* is left undefined or fails RegEx testing **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Last Name* is left undefined **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Date of Birth Name* is left undefined **when** the user blurs the input or attempts to submit **then** an error message is displayed

General:

* **Given** that the entered *Email Address* already exists in the system **when** the user attempts to submit **then** an error message is displayed
* **Given** that all inputs have passed their validation checks **when** the user submits their registration data **then** a new user is successfully registered within the system’s database

**TAC28 - As a logged out user, I want to log in so that I can access my account**

Data Input:

* *Email Address* is collected
* *Password* is collected

Data Validation:

* **Given** that *Email Address* is left undefined or fails RegEx testing **when** the user attempts to login **then** an error message is displayed
* **Given** that *Password* is left undefined **when** the user attempts to submit **then** an appropriate error message is displayed

General:

* **Given** that the given *Email Address* exists in the system and the given *Password* is correct **when** the user submits their login attempt **then** the user is successfully logged in

**TAC-3 -** **As an admin, I want to be able to add songs so that they can be sold on the platform**

Data Input:

* *Thumbnail Image* is collected and stored
* *Title* is collected and stored
* *Description* is collected and stored
* *Genre* is collected and stored
* *Tags* is collected and stored
* *Artist* is collected and stored
* *Price* is collected and stored
* *Age Rating* is collected and stored
* *Featured Artists* is collected and stored
* *Duration* is collected and stored

Data Validation:

* **Given** that *Thumbnail Image*  is not a valid image file (i.e. png, jpg) **when** the user attempts to select the file for upload **then** an error message is displayed
* **Given** that *Title* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Description* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Genre* is undefined when the user attempts to submit **then** an error message is displayed
* **Given** that *Tags* fails RegEx **when** the user attempts to submit **then** an error message is displayed
* **Given** that Artist is undefined **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that Price is undefined or non-numerical **when** the user blurs the input or attempts to submit **then** an error message is displayed

**Given** that *Featured Artists* fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed

* **Given** that Durationis undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed

General:

* *Tags* are comma separated
* *Genre* options are server populated
* *Artist* options are server populated
* *Featured Artist* options are server populated
* **Given** that all inputs have passed their validation checks **when** the user submits their music item **then** a new music item is successfully registered within the system

**As an admin, I want to be able to add books so that they can be sold on the platform**

Data Input:

* *Thumbnail Image* is collected and stored
* *Title* is collected and stored
* *Description* is collected and stored
* *Genre* is collected and stored
* *Tags* is collected and stored
* *Author* is collected and stored
* *Co-Authors* is collected and stored
* *Page Count* is collected and stored
* *Year Published* is collected and stored

Data Validation:

* **Given** that *Thumbnail Image*  is not a valid image file (i.e. png, jpg) **when** the user attempts to select the file for upload **then** an error message is displayed
* **Given** that *Title* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Description* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Genre* is undefined when the user attempts to submit **then** an error message is displayed
* **Given** that *Tags* fails RegEx **when** the user attempts to submit **then** an error message is displayed
* **Given** that Author is undefined **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that Co-Authors fails ReGex **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Page Count* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Year Published* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed

General:

* *Tags* are comma separated
* *Genre* options are server populated
* *Author* options are server populated
* **Given** that all inputs have passed their validation checks **when** the user submits their book item **then** a new book item is successfully registered within the system

**As an admin, I want to be able to add movies so that they can be sold on the platform**

Data Input:

* *Thumbnail Image* is collected and stored
* *Title* is collected and stored
* *Description* is collected and stored
* *Genre* is collected and stored
* *Tags* is collected and stored
* *Director* is collected and stored
* *Cast* is collected and stored
* *Age Rating* is collected and stored
* *Duration* is collected and stored
* *Year is collected and stored*

Data Validation:

* **Given** that *Thumbnail Image*  is not a valid image file (i.e. png, jpg) **when** the user attempts to select the file for upload **then** an error message is displayed
* **Given** that *Title* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Description* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Genre* is undefined when the user attempts to submit **then** an error message is displayed
* **Given** that *Tags* fails RegEx **when** the user attempts to submit **then** an error message is displayed
* **Given** that *Director* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Cast* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Duration* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Year* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed
* **Given** that *Age Rating* is undefined or fails RegEx **when** the user blurs the input or attempts to submit **then** an error message is displayed

General:

* *Tags* are comma separated
* *Genre* options are server populated
* **Given** that all inputs have passed their validation checks **when** the user submits their book item **then** a new book item is successfully registered within the system

**~~As an admin, I want to be able to add an artist so that they can be viewed on the platform~~**

~~Data Input:~~

* *~~Profile Image~~* ~~is collected and stored~~
* *~~Artist Name~~* ~~is collected and stored~~
* *~~Genres~~* ~~is collected and stored~~

~~Data Validation:~~

* **~~Given~~** ~~that~~ *~~Profile Image~~*  ~~is not a valid image file (i.e. png, jpg)~~ **~~when~~** ~~the user attempts to select the file for upload~~ **~~then~~** ~~an error message is displayed~~
* **~~Given~~** ~~that~~ *~~Artist Name~~* ~~is undefined or fails RegEx~~ **~~when~~** ~~the user blurs the input or attempts to submit~~ **~~then~~** ~~an error message is displayed~~
* **~~Given~~** ~~that~~ *~~Genres~~* ~~is undefined~~ **~~when~~** ~~the user blurs the input or attempts to submit~~ **~~then~~** ~~an error message is displayed~~

**~~As an admin, I want to be able to add an author so that they can be viewed on the platform~~**

~~Data Input:~~

* *~~Profile Image~~* ~~is collected and stored~~
* *~~Author Name~~* ~~is collected and stored~~
* *~~Genres~~* ~~is collected and stored~~

~~Data Validation:~~

* **~~Given~~** ~~that~~ *~~Profile Image~~*  ~~is not a valid image file (i.e. png, jpg)~~ **~~when~~** ~~the user attempts to select the file for upload~~ **~~then~~** ~~an error message is displayed~~
* **~~Given~~** ~~that~~ *~~Author Name~~* ~~is undefined or fails RegEx~~ **~~when~~** ~~the user blurs the input or attempts to submit~~ **~~then~~** ~~an error message is displayed~~
* **~~Given~~** ~~that~~ *~~Genres~~* ~~is undefined~~ **~~when~~** ~~the user blurs the input or attempts to submit~~ **~~then~~** ~~an error message is displayed~~

**TAC - 4 - As an admin, I want to be able to update product information so that I can fix details if needed**

* The Update Song form is identical to the Add Song form, however, input values are pre-populated with data retrieved from the server and the update data is submitted with the edited object’s ID.
* The Update Movie form is identical to the Add Movie form, however, input values are pre-populated with data retrieved from the server and the update data is submitted with the edited object’s ID.
* The Update Book form is identical to the Add Book form, however, input values are pre-populated with data retrieved from the server and the update data is submitted with the edited object’s ID.

**TAC - 9 - As a registered user, I want to view my recommended products on the homepage so that I have a list of what I can buy**

* The recommendation algorithm pulls data from:
  + The user’s personality/preference profile
  + User model
  + Their purchase history along with the classification data for each product in order to generate an interest score for each product.
* Sorts the music, books and movies datasets, in descending order, based on this interest score and returns a range of this sorted set as the user continues to request more recommendations.

**TAC - 10 - As a registered user, I want to select a certain product and view its details so that I can determine whether I want to buy it or not**

* For movie products, all relevant movie data (for the selected object) is returned from the server and displayed.
* For music products, all relevant song data (for the selected object) is returned from the server and displayed.
* For book products, all relevant book data (for the selected object) is returned from the server and displayed.

**~~As a registered user, I want to select an author and view their details and books in one location~~**

* ~~All relevant author data (for the selected author) is returned from the server and displayed on one page~~
* ~~All of the author’s listed books are returned from the server and displayed on one page~~

**~~As a registered user, I want to select an artist and view their details and songs in one location~~**

* ~~All relevant author data (for the selected author) is returned from the server and displayed on one page~~
* ~~All of the author’s listed books are returned from the server and displayed on one page~~

**TAC - 11 - As a registered user, I want to add a product to my shopping cart so that I can buy it**

Data Input:

* The product ID of the product of interest is collected and the association with the user is stored

General:

* Given that the has requested to add to add the product to cart when the product is successfully added to cart then the product is displayed in the users cart

**TAC - 12 - As a registered user, I want to purchase items on the site so that I can save myself convenience not having to purchase it at a store**

Data Input:

* The request to purchase items in cart is collected and stored

General:

* All payments are simulated to be successful for the sake of demonstration
* Products in purchase are added to users order history

**TAC - 13 - As a registered user, I want to view my order history so that I can recall what I've bought in the past**

* User’s past purchase data is retrieved from the server and displayed

**TAC - 7 - As an admin, I want to view all existent order details/sales of my added product so that I can view the analytics/statistics of my products**

* Total sales (weekly, monthly, hourly) is displayed
* Total revenue is displayed is displayed
* Purchase history is displayed

**TAC - 14 - As a registered user, I want to follow brands and topics so that I can be recommended products more catered to my liking**

Data Input:

* The product ID of the brand/topic of interest is collected and the association with the user is stored
* User details of the user who followed is stored (i.e. id + name)

General:

* Follow data is factored into the recommendation algorithm

**TAC - 26 - As a registered user, I want to be able to compare two books/movies/songs so that I can more easily choose between the two products**

* All relevant data for both products is returned from the server
* Include search bar when choosing product B
* Add cart functionality is integrated

**TAC - 5 - As a new user, I want to fill an introductory questionnaire so that I can be profiled towards correctly recommended items**

Data Input:

* Questionnaire needs to profile users personality to the extent where song preferences, book preferences and movie preferences can be inferred OR song, book and movie preferences need to be explicitly questioned such that a preference profile can be generated (Exact questions still to be decided)