|  |  |  |
| --- | --- | --- |
| Outer Space Landscape outline user STories Use stories will be used to show how the application will be executed by the user. It will go through he application step by step. requirements The requirements of the application will be written down. With each having their own priority and the estimate time it will take to develop. This also includes user stories. | |  | | --- | | Stella NovaStallar information |  Wireframes Wireframes will be used to sketch the project. Different designs will be tested and displayed here. keypoints  * Astronomy Picture of the Day * Near Earth Object * Mars Weather Service |

Project DEscription

I really love space exploration, and the idea of having a website where all relevant information is shown about the galaxy would be really cool. During this project ill get to know the IntelliJ environment better and get used to the Java language. I think this will really be benefitting my developing skills.

The project:

* There will be multiple functionalities of the website to show of the galaxy. Some of the key points of this application are:
  + Astronomy Picture of the Day
    - The picture of the day
  + Near Earth Object
    - Shows any incoming objects towards earth
  + Mars Weather Service
    - Shows the weather on mars
  + Account creation
    - Save favorite posts
    - Make a blog post

It will be made with Java + Gradle using IntelliJ IDEA. I have no experience yet with working in this environment and coding language, so it’ll probably a challenging project.

requirements

FR **Astronomy Picture of the Day**

*FR. 1* **The user should be able to see the astronomy picture of the day. (Must)**

* 1. There will be a gallery showing off each day’s picture of the day.
  2. User can look up the picture of the day using search bar.
  3. Loaded from an API

*FR. 2* **The pictures should be available on a separated page** **(Must)**

* 1. A separate page should be set up for the Astronomy Picture of the Day.
  2. User can add a favorite picture to their account.

**User Story 1 (Showing picture of the day):**

**(Must)**

**As a**: User.

**I want**: I want to be able to load the picture of the day.

**So that**: I can add the “Picture of the day” to my favorites.

**Acceptance Criteria:**

**Given:** User is logged in

**When:** After trying to add the picture to his favorites

**Then:** It saves the picture to the account and is stored in the database.

FR ***Mars Weather Service***

*FR. 3* **The user should be able to see the current and past weather of mars****. (Must)**

* 1. Page shows the current weather on the Elysium Planitia & Gale Crater location.
  2. Loaded from an API

*FR. 4* **The user should be able to see weathers information**. **(Must)**

4.1 Max. temperature & Min. temperature

4.2 Pressure

4.3 Sunrise

4.4 Sunset

**User Story 2 (Showing mars weather):**

**(Must)**

**As a**: Visitor

**I want**: To be able to load the data regarding mars’ weather.

**So that**: I can look at the weather of the week on mars.

**Acceptance Criteria:**

**Given:**  The user doesn’t have to be logged in.

**When:** the date is set.

**Then:** It loads the api and shows the information based on the date.

FR ***Near Earth Object***

*FR. 5* **User can search for Asteroids based on their closest approach date to Earth.**

*FR. 6*  **User can look up a specific Asteroid with its NASA JPL small body id.** **(Should)**

*FR. 7*  **User can browse the overall data-set. (Could)**

**User Story 3 (User can search for Asteroids based on their closest approach date to Earth):**

**(Must)**

**As a**: Visitor.

**I want**: To be able to see the objects that are heading towards earth or other objects like the moon.

**So that**: There will be information shown about this object.

**Acceptance Criteria:**

**Given:**  The user doesn’t have to be logged in.

**When:** the date is set.

**Then:** It loads the api and shows the information based on the date.

**User Story 4 (User can look up a specific Asteroid with its NASA JPL small body id):**

**(Should)**

**As a**: Visitor.

**I want**: To be able to search specific asteroids with the id.

**So that**: The asteroid shows up that I searched.

**Acceptance Criteria:**

**Given:** you need to know the asteroid id

**When:** the id is entered.

**Then:** the corresponding asteroid’s data is loaded.

**User Story 5 (User can browse the overall data-set. ):**

**(Could)**

**As a**: Visitor.

**I want**: To be able to see all asteroids.

**So that**: The asteroids can all be checked at once, while filtering.

**Acceptance Criteria:**

**Given:** You have entered a filter .

**When:** a filter is given.

**Then:** the data loads regarding what kind of filter is applied.

FR ***Accounts***

*FR.8* **Accounts have to be able to be created. (Must)**

* 1. Username and password fields cannot be empty.
  2. There should be an error message saying if the input is invalid.
  3. Password should be hidden.
  4. The username cannot be an existing username.
  5. Both passwords inserted should be the same.
  6. Accounts will be saved in the database.

*FR 9.* **The user can login (Must)**

9.1 Username and password should be filled.

* 1. Notification should be shown when an invalid login was attempted.

*FR 11.* **Account-recovery.** **(Could)**

11.1 An email will be sent to reset the password.

11.2 After confirming the password reset on the email send to the user, the account will be reset and the user can insert a new password.

*FR 12.* **The user can logout (Must)**

12.1 Using a button he user can logout.

**User Story 6 (Accounts have to be able to be created.):**

**(Must)**

**As a**: Visitor.

**I want**: To be able to create and manage your account.

**So that**: I can browse and save my favorite posts/images/information to my account.

**Acceptance Criteria:**

**Given:** You don’t have an account yet.

**When:** You insert the correct values in the fields.

**Then:** The account creation will be finished and saved in the database.

WireFrames

**Wireframe 1. Home Page**