Login Page UML Sequence Diagram

A UML Sequence Diagram, presented

to Leonardo Pabroquez

University of the Philippines Visayas

In Partial Fulfilment

of the Requirements for

Software Engineering 1

By

Russel Jade F. Tumanon

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The Big Bang Theory Website is a website which gravitates around The Big Bang Theory, an American television sitcom. The concept of the product is a Wikipedia-like website wherein reliable and credible information about The Big Bang Theory Series is presented. For example, the character descriptions, seasons, and any related content.

The Major features of the website are as follows:

A Login feature where users could use to enter the website and access relevant information the website provides.

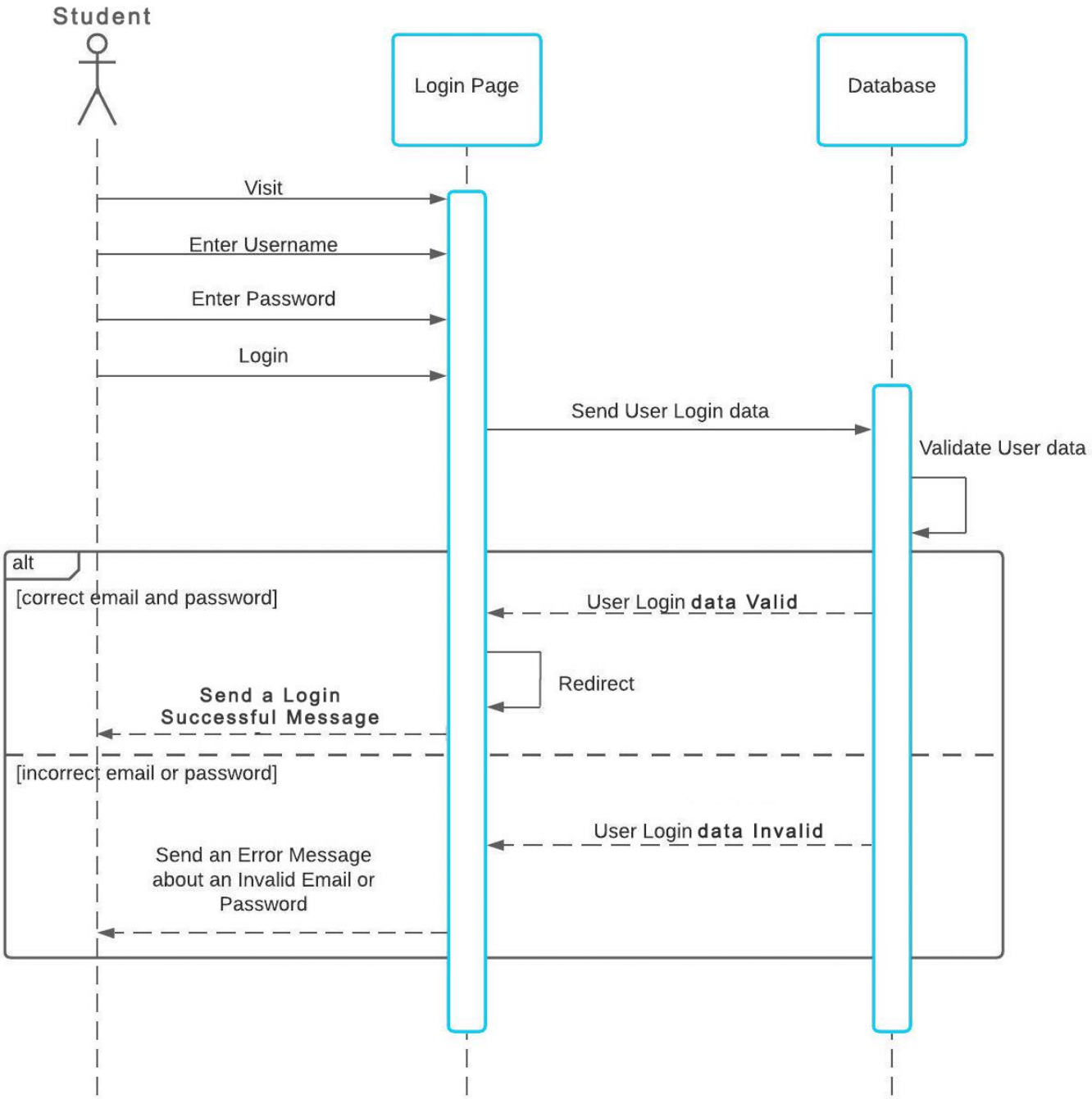
Signup feature to let users who doesn't have an account yet to be able to create one so that they can login.

A Forum for users to develop rapport and share their thoughts about the show by posting it. Other users could also reply on these posts provided that they have an account and are logged in.

A song Feature where users could listen to Th Big Bang Theory's theme song when they enter the website. And;

Search Feature for users to easily find and access relevant information.

The goal of this lab is to develop a UML Sequence Diagram. In the world of software engineering, a sequence diagram or system sequence diagram depicts object interactions in chronological order. It represents the scenario's objects as well as the sequence of messages exchanged between them in order to carry out the scenario's functionality.



UML Sequence Diagram of Login feature

Based on the above sequence diagram, the actor is the user of the website and it has 2 objects, the Login page and Database.

The Login is placed before the Database next to the user because we need to place them in sequential order from left to right and when a user login to the website, they first go to the Login page before the Database.

Then, the lifelines are the vertical dash lines as you can see, which shows the existence of our objects and actor overtime. The lower the lifeline means more time is passing.

We also have the activation boxes which show when and how long an object is performing an action. They start from the first message up to the last message of the lifeline. There's no activation box in the actor part since it is an external object.

To explain the order in which things occur in my website, first the user visits the Login page, enters their username and password and clicks the login button.

Next, the Login page sends the user Login data to the database so that it can validate if the user has an account or not. Since the validation is a kind of self-message, then the arrow will go back to itself.

In the alternative, it shows us what happens after the Database validates the User login data. If the User Login data is valid, then the Login page will send another self-message to send a reply message that the Login is successful and then it will be sent to the user. However, if the Login data is invalid, the message that will be sent to the user is an error message. That's it, that's how the Login sequence is in my website.