Pinterest

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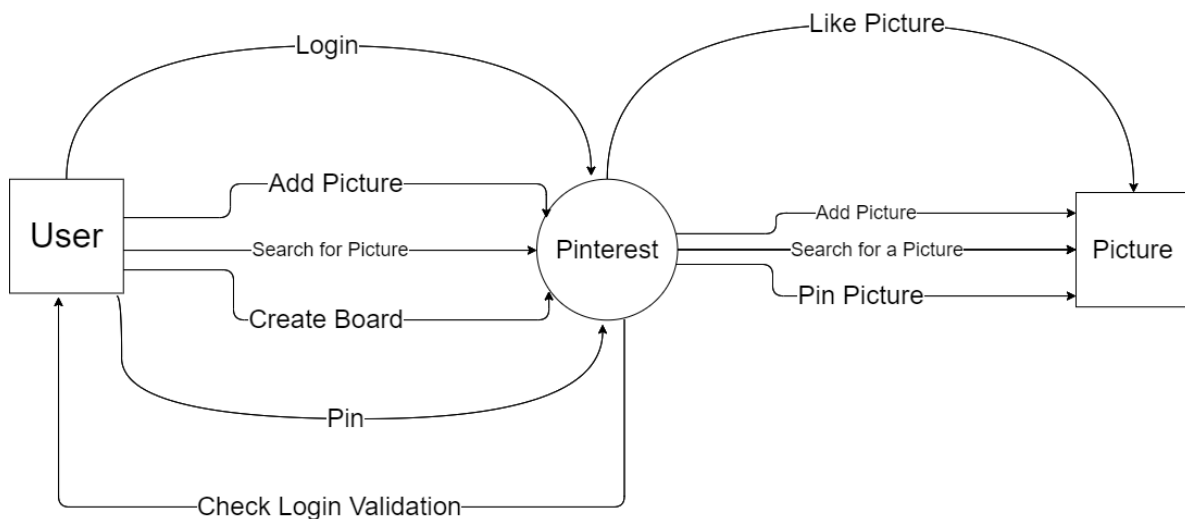اسلام اشرف احمد إسماعيل AI 2

ناتالي امجد إبراهيم فهيم AI 2

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1-Introduction:

Pinterest is an image sharing and social media service designed to enable saving and discovery of information on the internet using image in the form of pinboards. The software is used for reviewing and posting photos that can be accessed by other users. The user can like the photos you view and pin them to a board. The user can search by either name or category. The software recommends similar photos to the user.

2-Conext Diagram:

3-User Requirements:

As a user, I should be able to:

- View images
- Add images
- Pin images
- Like the images
- Search for the images
- Have my own account

4-Functional Requirements:

Functional Requirement 1: Create Account
1. Input: Username and Password
2. Source: User
3. Pre-condition: The user isn't already registered
4. Post-condition: Store the user's information in the database
5. Output: User gains access to account functions and move to home page

Functional Requirement 2: Add image
1. Input: Image
2. Source: User
3. Pre-condition: Validate that the input is an image
4. Post-condition: Store the image in the database
5. Output: Display a confirmation message

Functional Requirement 3: Create board
1. Input: Text (Name)
2. Source: User
3. Pre-condition: The board isn't already created
4. Post-condition: Store in the database
5. Output: Display a confirmation message

Functional Requirement 4: Create a pin
1. Input: An existing image in the database
2. Source: User
3. Pre-condition: The image isn't already pinned
4. Post-condition: choose a board
5. Output: Display a confirmation message

Functional Requirement 5: Search for Images
1. Input: Text of the image's name or category
2. Source: User
3. Pre-condition: The image exists in the database
4. Output: Display all candidate images

Functional Requirement 6: Like an image
1. Source: User
2. Pre-condition: The image isn't already liked
3. Post-condition: Toggle a Boolean in the database
4. Output: Display a confirmation message

Functional Requirement 7: Comment on an image
1. Input: Text
2. Source: User
3. Pre-condition: Doesn't exceed a specific length
4. Post-condition: Store the comment in the database
5. Output: Display the comment below the image

5-Non-Functional Requirements:

1-Security:
The users' data must be secure and safe. The images uploaded are moderated by the admins to make sure they do not promote phishing.

2-Efficiency:
The application neither wastes the user's storage nor utilize extra processes that can harm the CPU and deliver the shortest response time.

3-Maintainability:
The application can cope with the requirements change and the flexibility of the user's requirements.
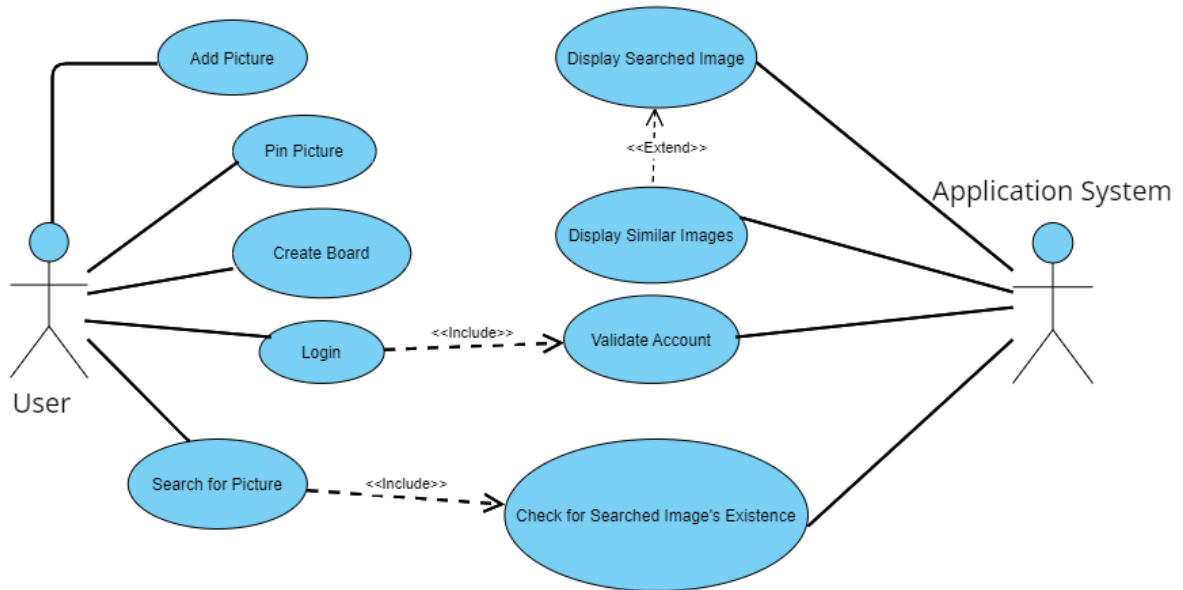
4-Acceptability:
The application must have an acceptable GUI. It is easy to use with comfortable colors for the eye.

5-Development methods and tools:
- The application is developed using C# as a programming language with the help of ODB.Net library.
- Oracle SQL/PL-SQL are for the database management.
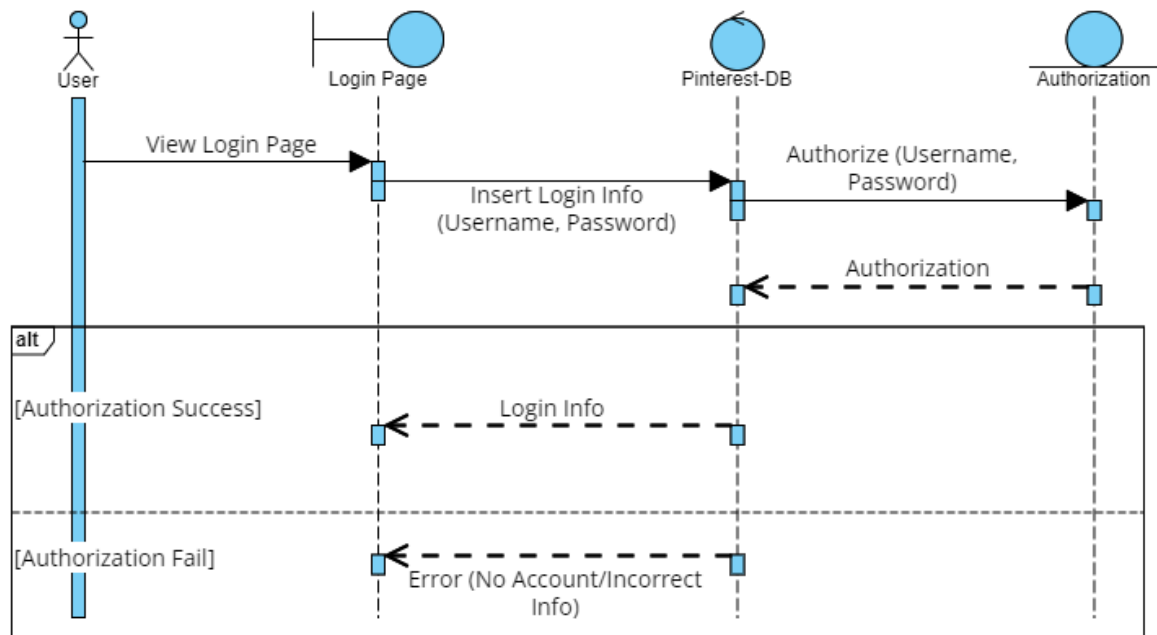
Use Case Diagram

Sequence Diagram for login use case