**Requirements Specifications**

1. **User Registration, Authentication and Access Control:**

* Users should be able to sign up for an account via email, Google or Facebook.
* Users should be able to log into their accounts.
  + Users should be able to add an account.
* Users should be able to reset their passwords.
* Users should be assigned roles/groups:
  + Users should only have access to features and content based on their assigned roles.
  + Encapsulation must be implemented to restrict access to specific resources based on user roles.

1. **Account Management:**

* Users should be able to edit their profile:
  + Uploading a profile picture
  + Edit their bio, username and other profile details.
* Users should be able to edit their account details including editing personal information, email, password etc.
* Users should be able to edit their notifications settings
  + Edit notifications while a user is using the app.
  + Edit notifications to receive by email.
  + Edit notifications to receive on their phone.
* Users should edit their profile visibility.

1. **Content Posting:**

* Users should be able to post content including images and videos.

1. **Social Interaction:**

* Allow users to follow other users and boards to stay updated with their activity.
* Users should be able to use features like liking, commenting on, and sharing pins.
* Users should be able to see notifications for interactions such as likes, comments, and new followers.

1. **Pinning and Boards:**

* Users should be able to create boards to organize their pins.
* Users should be able to add pins to boards, including uploading images or adding pins from external sources.
* Users should be able to edit and delete their pins and boards.
* Users should be able to filter their pins and boards.

1. **Discovering and Browsing Content:**

* Users should be able to discover new pins based on their interests and activity.
* Users should be able to search for pins and boards by keyword, category, or user.
* Users should be able to use filters to refine search results (e.g., by popularity, date, or relevance).

1. **Responsive Design:**

* Ensure that the platform is accessible and usable across both mobile and desktop (have we decided which one we implementing)

1. **Content Moderation and Reporting:**

* Mechanisms should be implemented to monitor and moderate user-generated content for inappropriate or offensive material.
* Users should be able to report pins, comments, or other users for violations of community guidelines.

1. **Analytics and Insights:**

* Include analytics to track user engagement, popular pins, and trending topics.
* Provide insights to users about their activity, such as the number of followers, pin views, and board popularity.

1. **Performance and Scalability:**

* Optimize the platform for performance to ensure fast loading times and responsiveness.
* Design the system to handle a growing user base and increasing data volume.

1. **Security:**

* Implement measures to protect user data:
  + encryption of sensitive information
  + secure communication protocols.
  + password hashing
  + secure authentication mechanisms such as two-factor authentication

*confirm format of requirements specifications : should it be split into user, system, functional and non-functional requirements.*