## Instagram Spec:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | When user A goes to other user B’s profile page:  On Left top we see:   |  | | --- | | Profile Image  Name  Title  Bio |   On Right top we see count for:   |  | | --- | | Posts, Followers, Following |   And button “Follow” if A is not following B.  OR button “Following” if A is following B.  Button to “Contact” if user B has set phone/email.  For now we will ignore the contact button.  Bottom half has images from user B’s Posts in descending order (latest post image is at the top left)  Selecting one image takes you to…   |  | | --- | | Route/APIs:  getUserProfileInformation(userID) – returns all info for this user  getPosts(userID) – returns all posts by user in descending order | | |
|  | …One single Post.  User A can now “Like” it or Add “Comment” by clicking on the buttons available for this post.  Post has Total number of Likes it has already received.  Post has Comments listed in descending order.  If User A hits like, then this likes count will increase.  If User A writes comment, then this comment is listed at top of all other existing comments.  Back button at top left (not seen in this pic) should take you to user B’s Profile page.     |  | | --- | | Route/APIs:  getPosts(postID) – returns all posts info |   Selecting “Followers” takes you to Followers page to list users that are following you.  Selecting “Following” takes you to Following page, to list users you are following already.   |  | | --- | | Route/APIs:  getFollowersFor(userID)  getUsersFollowing(userID) | | |
|  | | When you are on your own profile page.  All content is same as any other Profile page except  Button “Edit your Profile” is seen. Clicking on it takes you to…   |  | | --- | | Route/APIs:  getUserProfileInformation(userID) – returns all info for this user  getPosts(userID) – returns all posts by user in descending order  *where userID is your own ID* | |
|  | | Users profile editor page, User can then choose to update their profile information.   |  | | --- | | Route/APIs:  updateUserProfileInformation(userID) – updates the values in the DB with new user info provided.  Needs validation here. | |

## Sign up and Login Flow:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| User lands on Instagram. Has 2 options. | User can **sign up** to create new account   |  | | --- | | Route/APIs:  Similar to /register | | User can **login** with user email and password   |  | | --- | | Route/APIs:  Similar to /login | |
|  |  |  |

## Tables needed:

*Note: grey IDs in the table are autogenerated by MongoDB and we do not use it for any reference in our design yet.*

Note: We can combine User and Profile table?

**User:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| *UserID* | Name | Email | Password | Phone | Timestamp |
| *UserID is used for reference* |  |  |  |  |  |
|  |  |  |  |  |  |

**Profile**:

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| *Profile*  *ID* | UserID | Display  Name | Title | Profile  Picture | Website | Bio | Post  Count | Follower  Count | Following  Count | Timestamp |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

**Post:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| *PostID* | UserID | ImageURL | PostText | LikesCount | CommentCount | Timestamp |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |

**Like**:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *LikeID* | PostID | UserID | Like | Timestamp |
|  |  |  |  |  |
|  |  |  |  |  |

**Comment**:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| *CommentID* | PostID | UserID | Comment | Timestamp |
|  |  |  |  |  |
|  |  |  |  |  |

**Follow**:

|  |  |  |  |
| --- | --- | --- | --- |
| *FollowID* | Follower\_UserID | Following\_UserID | Timestamp |
|  |  |  |  |
|  |  |  |  |

## APIs Needed:

*<Covered above in respective user scenarios/ can add more details here if needed>*