## 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…   |  | | --- | | Possible APIs we may need for this page are:  GET http://localhost:5300/api/users/current  GET http://localhost:5300/api/profile/ (authenticate) gets current users profile  GET http://localhost:5300/api/posts (lists all posts)  POST http://localhost:5300/api/posts (create a new Post)  GET <http://localhost:5300/api/follow/follower/:userid>  GET <http://localhost:5300/api/follow/following/:userid> | |
|  | …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.     |  | | --- | | Possible APIs we may need for this page are:  GET http://localhost:5300/api/posts (lists all posts)  POST <http://localhost:5300/api/posts/like/:id>  POST <http://localhost:5300/api/posts/unlike/:id>  POST <http://localhost:5300/api/posts/comment/:id>  DELETE http://localhost:5300/api/posts/comment/:id/:comment\_id |   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.   |  | | --- | | Possible APIs we may need for this page are:  POST http://localhost:5300/api/follow/:id (user id)  DELETE http://localhost:5300/api/follow/:id (remove user id)  GET http://localhost:5300/api/follow/following/:id (list of all user ids you follow)  POST <http://localhost:5300/api/follow/unfollow/:id> (unfollow a user) | |
|  | 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…   |  | | --- | | Possible APIs we may need for this page are:  GET http://localhost:5300/api/posts (lists all posts)  GET <http://localhost:5300/api/posts> (for a given user ID)  GET <http://localhost:5300/api/follow/follower/:userid> (follower count)  GET <http://localhost:5300/api/follow/following/:userid> (following users count) | |
|  | Users profile editor page, User can then choose to update their profile information.   |  | | --- | | Possible APIs we may need for this page are:  GET http://localhost:5300/api/profile/ (authenticate) gets current users profile  POST http://localhost:5300/api/profile (authenticate) to edit or create new profile | |

## Sign up and Login Flow:

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

**User:**

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

**Profile + Follow** can be combined:

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

**Follow**:

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

**Post + Like + Comment** can be combined**:**

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

**Like**:

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

**Comment**:

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