

User
+username: str
+email: str
+password: str
+first_name: str
+last_name: str
+profile_picture: ImageField
+friends: ManyToManyField
+groups: ManyToManyField
+posts: ForeignKey
+notifications: ForeignKey
+create_profile() : void
+update_profile() : void
+send_friend_request(user: User) : void
+accept_friend_request(user: User) : void
+decline_friend_request(user: User) : void
+create_post(caption: str, media: File) : void
+like_post(post: Post) : void
+add_comment(post: Post, comment: str) : void
+share_post(post: Post) : void
+send_message(user: User, message: str) : void
+receive_message(user: User, message: str) : void
+join_group(group: Group) : void
+leave_group(group: Group) : void
+get_notifications() : QuerySet

Group
+name: str
+description: str
+members: ManyToManyField
+posts: ForeignKey
+create_post(caption: str, media: File) : void
+get_posts() : QuerySet

Post
+user: ForeignKey
+caption: str
+media: File
+likes: ManyToManyField
+comments: ManyToManyField
+share_count: int
+create_comment(comment: str) : void

Comment
+user: ForeignKey
+post: ForeignKey
+comment: str

Notification
+user: ForeignKey
+message: str
+is_read: bool