Backend:

1) Account management class
   - Signup method
   - Login method
   - Logout method
   - Track user status (online or offline), updates when user logs out
   - Use hashed passwords (e.g., with MessageDigest or java.security).
   - Validation by checking email format and making sure every field is filled out
2) User class (possibly add arraylist containing friends usernames)
   - userId
   - Email
   - Username
   - Password
   - Dateofbirth
   - Status
3) Profile Management class
   - Profile and cover photo
   - Bio
   - Password(Hashed storage)
   - Save updated user details
   - Fetch and serve a list of the user's own posts with timestamps and any attached images.
   - Fetch and serve a list of the user's friends, including their status (online/offline)
4) Content class (will be superclass for both stories and posts)
   - contentId
   - authorId
   - content (text with optional image)
   - timestamp: Creation time
   - Automatically delete expired stories from the file-based database
5) Friend Management class
   - Suggest friends who are not already in the user's friend list
   - Enable receivers to accept or decline requests
   - Remove: Ends the friendship but allows users to reappear in friend suggestions
   - Display friend statuses (online/offline) in the newsfeed page.
   - Block: Prevent interaction, including viewing posts, stories, and statuses
   - Suggest friends who are not already in the user's friend list

6) Newsfeed class (fetch and serve)
- Posts and stories from friends
- List of friends, including their statuses (online/offline)
- Friend suggestions.

Frontend:

1) Window to choose sign-in or login
2) Signup form to collect and validate user details.
3) Login form with error handling for incorrect credentials
4) Newsfeed page
- Logout button to update the user's status to offline and close the session
- Display the user's online/offline status
- Show online/offline status of friends on the newsfeed page(Friend List: Indicate which friends are online or offline)
- Content Creation Area
    - Creating posts with text and optional images
    - Creating stories with similar options
- Posts and Stories: Show recent posts and active stories from friends
- Friend Suggestions: A section to display potential new friends.
- A refresh button to manually reload the page and fetch updates (new posts, stories, friend requests, etc.).
5) Profile Management Page
- Change profile photo and cover photo using an upload feature
- Edit their bio
- Update their password
- Display the user's posts in a section, showing the content and images
- Display the user's friends list, indicating their online/offline status
6) Friend management interface
- View and respond to friend requests
- View and manage the friend list
- View and send friend suggestions
- Block or remove friends

Deadline for delivery is Friday, December 6, 2024, at 11:59 PM.