

Yangder Technical Documentation

Yang (/jeɪŋ/) means couple in Javanese slang. Yangder is a find-a-partner application that matches you with your potential mate.

Github Repository URL

<https://github.com/natanhp/yangnder>

Requirements

Functional

1. The user can sign up for the app.
2. The user can log in to the app.
3. The user can view and swipe up to 10 profiles a day.
4. The same profiles must not appear more than once on the same day.
5. User can purchase premium packages to add a verified label to their profile.

Non-functional

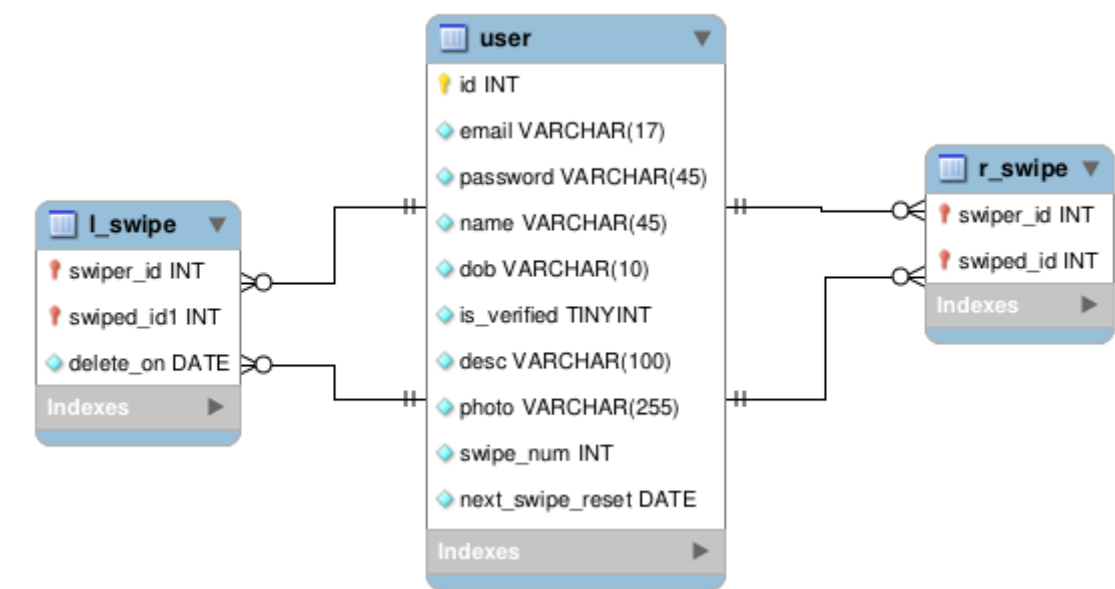
1. Password with Argon2id with a minimum configuration of 19 MiB of memory, an iteration count of 2, and 1 degree of parallelism as recommended by OWASP.
2. Use JSON Web Token for API Security.

Tech Stacks

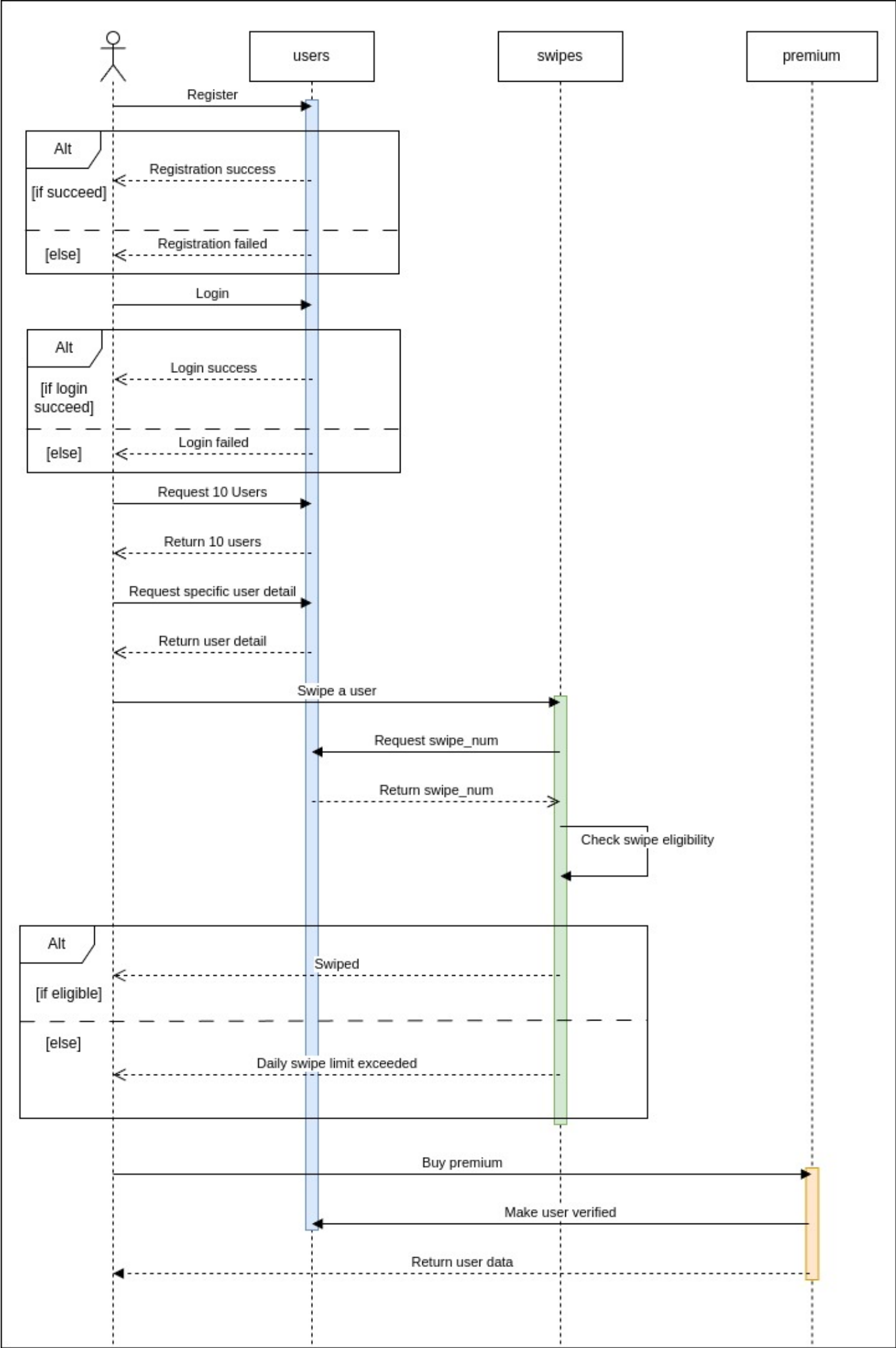
1. Go as the programming language because it is a simple yet fast language with huge community support.
2. Gin as the web framework because it is simple but loaded with complete features.
3. SQLite as the database because it requires no server and is suited for a simple application.

System Design

ER Diagram



Sequence Diagram



List of Test Cases

No	Test Case Scenario	Expected Results
1	Make sure user can buy verified label	User object contains "is_verified": true
2	Make sure the user can swipe right to another user	r_swipes object created containing the user ID from the swiper and the one that got swiped.
3	Make sure the user can only swipe right another existing user	Error User not found when swiping on a non-existing user
4	Make sure only user with swipe_num > 0 can swipe right	Error Out of swipes when user with swipe_num <= 0 swiping right on another user.
5	Make sure only the user that is not already related to the swiper in l_swipes can be swiped right	Error Already swiped when swiped user already related to the swiper in l_swipes
6	Make sure only the user that is not already related to the swiper in r_swipes can be swiped right	Error Already swiped when swiped user already related to the swiper in r_swipes
7	Make sure the user can swipe left another user	l_swipes object created containing user ID from swiper and the one that got swiped and delete_on containing date time when this row should be deleted.
8	Make sure the user can only swipe left on another existing user	Error User not found when swiping on a non-existing user
9	Make sure only user with swipe_num > 0 can swipe left	Error Out of swipes when user with swipe_num <= 0 swiping left on another user.
10	Make sure only the user that is not already related to the swiper in l_swipes can be swiped left	Error Already swiped when swiped user already related to the wiper in l_swipes
10	Make sure only the user that is not already related to the swiper in r_swipes can be swiped left	Error Already swiped when swiped user already related to the swiper in l_swipes
11	Make sure can find all users	Return more than one user
12	Make sure can get user detail	Return user detail
13	Make sure can create new user	Return new created user
14	Make sure email is unique	Error Email already taken when registering with an existing email
15	Make sure the user can upload the photo	Return the user object with the photo file name in photo

No	Test Case Scenario	Expected Results
16	Make sure the user can't upload an empty photo	Error Photo is required when a photo is empty
17	Make sure the user can log in	Return logged-in user information and token
18	Make sure only registered email can be used to login	Error Invalid email or password when non-registered email is being used
19	Make sure only matched hashed can be used with the sent password	Error Invalid email or password
20	Make sure swipe_num always be reset in daily basis	Update swipe_num and set it to 10 and update the next_swipe_reset to current time + a day.
21	Make sure all record in l_swipes will be deleted if delete_on is smaller than current date time	No record of l_swipes if the delete_on is