BLOCK DIAGRAMS

MS_317

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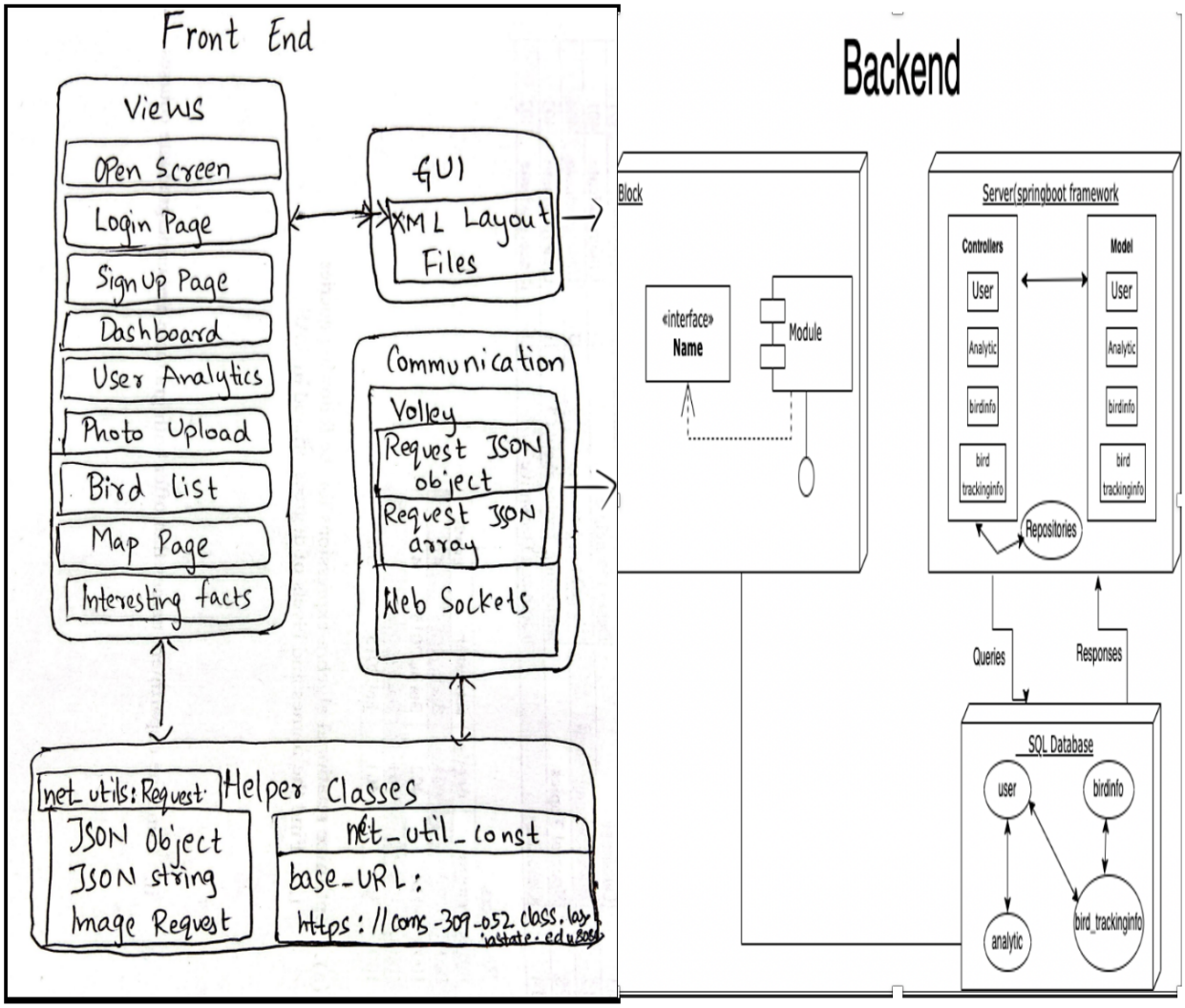
WingWatcher


Front End
Views
Open Screen
Login Page
Sign Up Page
Dashboard
User Analytics
Photo Upload
Bird List
Map Page
Interesting facts
GUI
XML Layout Files
Communication
Volley
Request JSON object
Request JSON array
Web Sockets
net_utils: Request
Helper Classes
JSON Object
JSON string
Image Request
net_util_const
base_URL:
https://cons-309-052.class.las.iastate.edu:8080
Backend
Block
«interface» Name
Module
Server(springboot framework
Controllers
Model
User
Analytic
birdinfo
bird trackinginfo
Repositories
Queries
Responses
SQL Database
user
birdinfo
analytic
bird_trackinginfo

Frontend:
Description / Functionality of the app:
When the user starts the app, they are presented with the splash screen, followed by the login page; if they don't have an account, they can click the signup button there. If the user already has an account, they can click the login button and use the app. If clicked signup, the user gets navigated to the signup page and can create an account. Once the user has successfully logged into the app, the user will be navigated to the dashboard, which includes all the pages and cards for each. Once the user is on the dashboard page, they can click on the cards they want to go to, and upon clicking, the user is navigated to that page. We also have a navigator drawer. The navigation drawer includes home, app info, list of privileges, change password, and logout.
If clicked logout, the user gets logged out and will be navigated back to the login page.
To change the password, the user sees a pop-up for entering a new password twice to authenticate. Coming to the six cards we have, one is the user analytics, which gives information on the analytics and counts of the birds. The next one is the photo upload thing, which allows the users to upload a picture from the photo gallery, and then the information of the bird is displayed. The third one is the bird list page, where all the birds are displayed as a list, and there is also a search bar at the top so that the users can search for a particular bird they want to scout. Upon searching for the birds, there is also a learn more button that takes the users to the bird info page that gives the total information about the bird, and users can read about the bird they wish to. The next is the map page, where we integrated the Google Maps API, and there is a map that also shows the markers and names of the birds marked. The markers also have a button to make users navigate the bird list page and search for the birds they want. The next card is the interesting facts, with a button to generate the facts. When clicked on that button, the facts are displayed from there.