

MINOR PROJECT

Priyanshu Parashar(19100BTCSE05699)
Samaditya Jatar(19100BTCSE05713)
Samarth Bhole(19100BTCSE05714)

Guided by :
Dr.Abhishek Sharma



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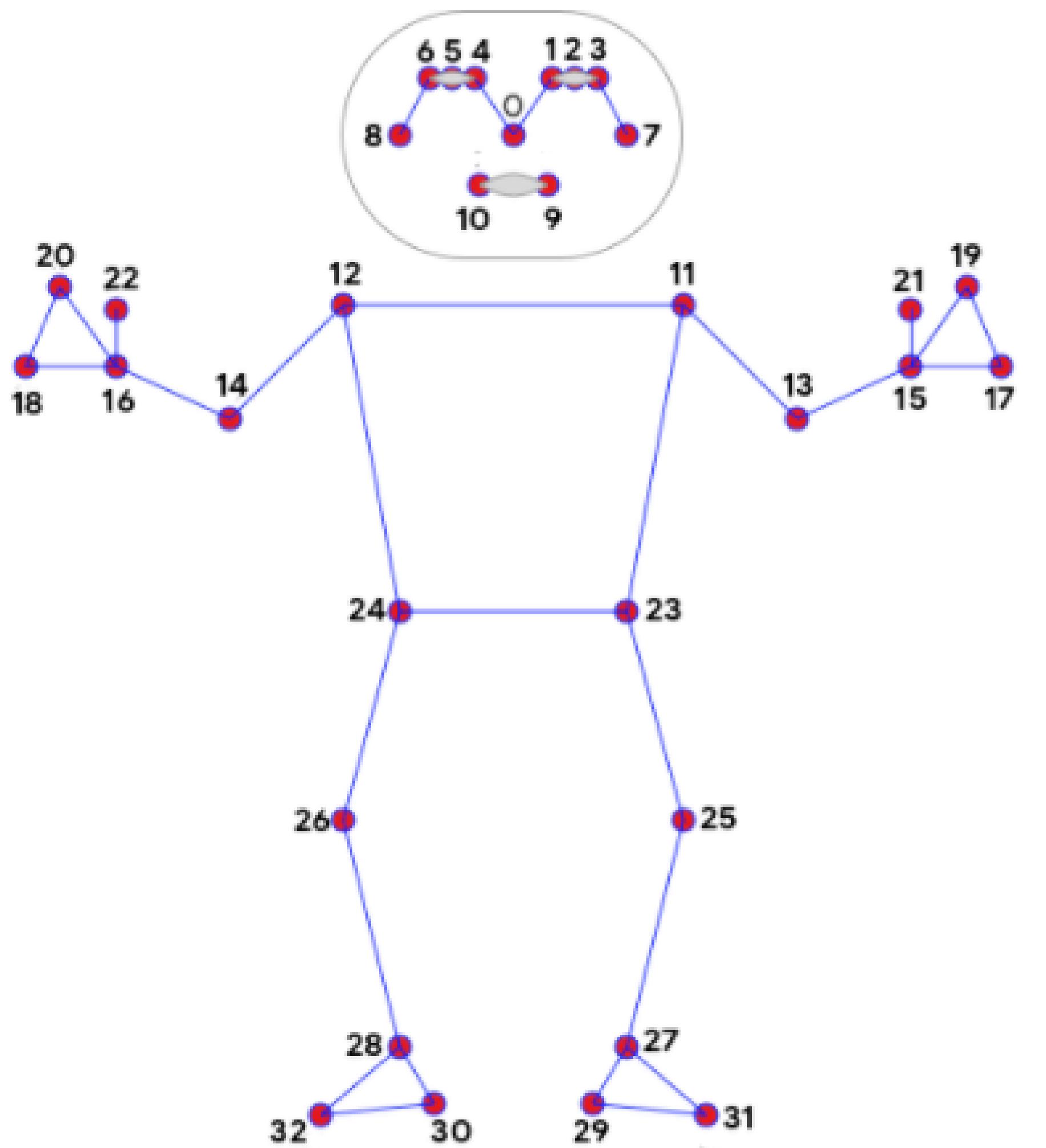
OBJECTIVE

During the covid-19 outbreak and the following lockdown protocols, it took a direct hit on the gyms and fitness of the people. We experienced this problem and could not find any viable solutions for the same except some which were really superfluous so, it engendered an intuitive solution that shall help people who want to continue their fitness journey at their homes with minimal equipment and under supervision from your own virtual fitness coach.



SOLUTION TO THE PROBLEM

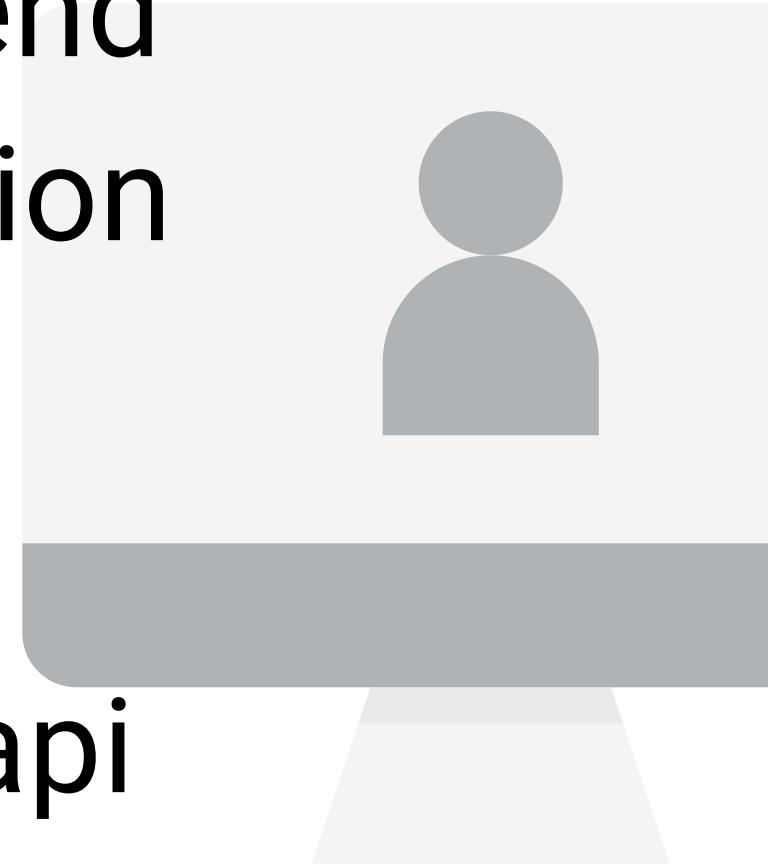
Home gymming was considerably the most favorable solution which is great but it has its own drawbacks like there is no way to track our workout so we came up with an solution which uses a machine learning model to recognize the joints in our body through which we can track the moment of a specific muscle which will eventually help us track our workout and also our system will include other functionality which will track your calorie intake we will use web-scraping to manage their diet.



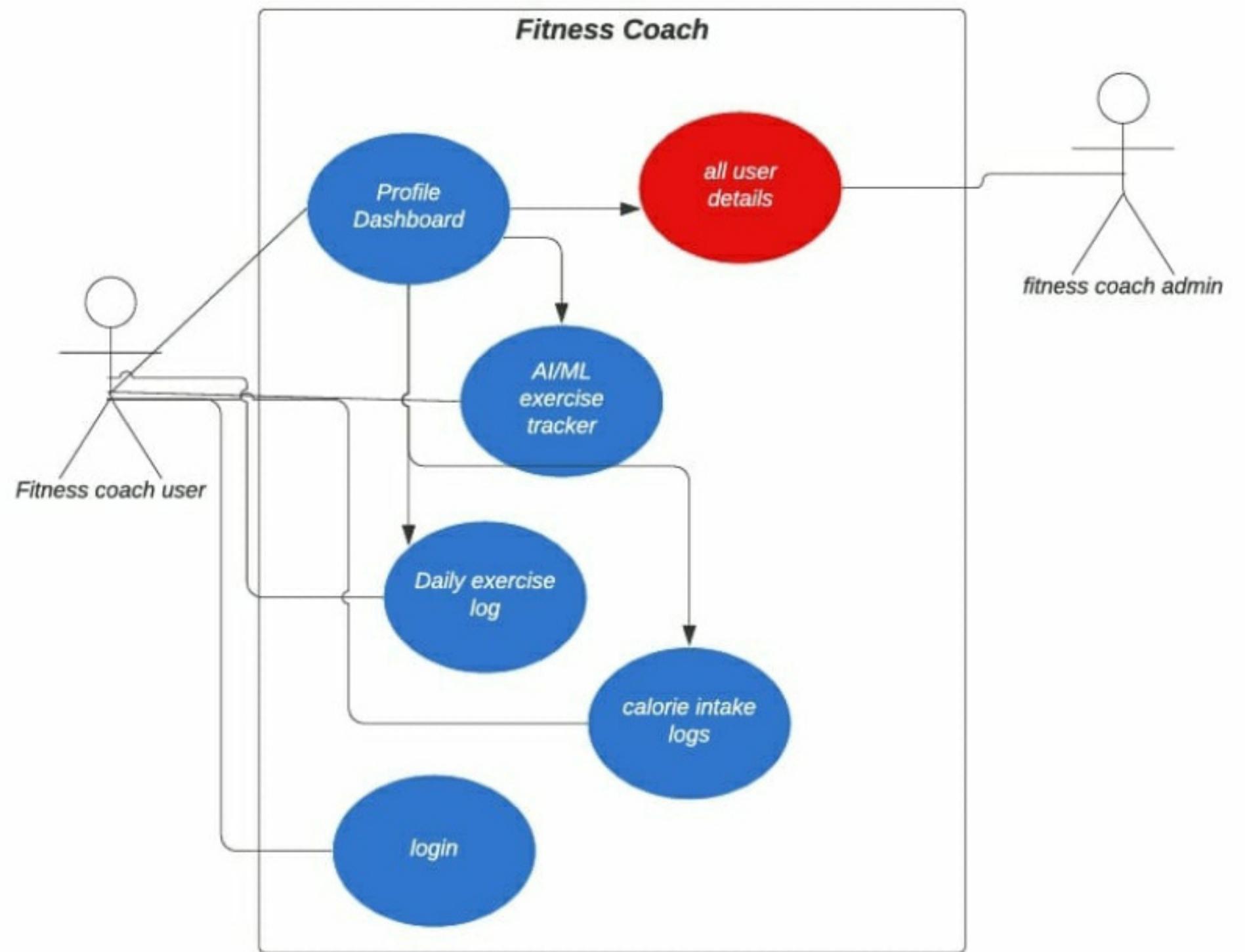
- 0. nose
- 1. left_eye_inner
- 2. left_eye
- 3. left_eye_outer
- 4. right_eye_inner
- 5. right_eye
- 6. right_eye_outer
- 7. left_ear
- 8. right_ear
- 9. mouth_left
- 10. mouth_right
- 11. left_shoulder
- 12. right_shoulder
- 13. left_elbow
- 14. right_elbow
- 15. left_wrist
- 16. right_wrist
- 17. left_pinky
- 18. right_pinky
- 19. left_index
- 20. right_index
- 21. left_thumb
- 22. right_thumb
- 23. left_hip
- 24. right_hip
- 25. left_knee
- 26. right_knee
- 27. left_ankle
- 28. right_ankle
- 29. left_heel
- 30. right_heel
- 31. left_foot_index
- 32. right_foot_index

TECHNOLOGIES INCORPORATED

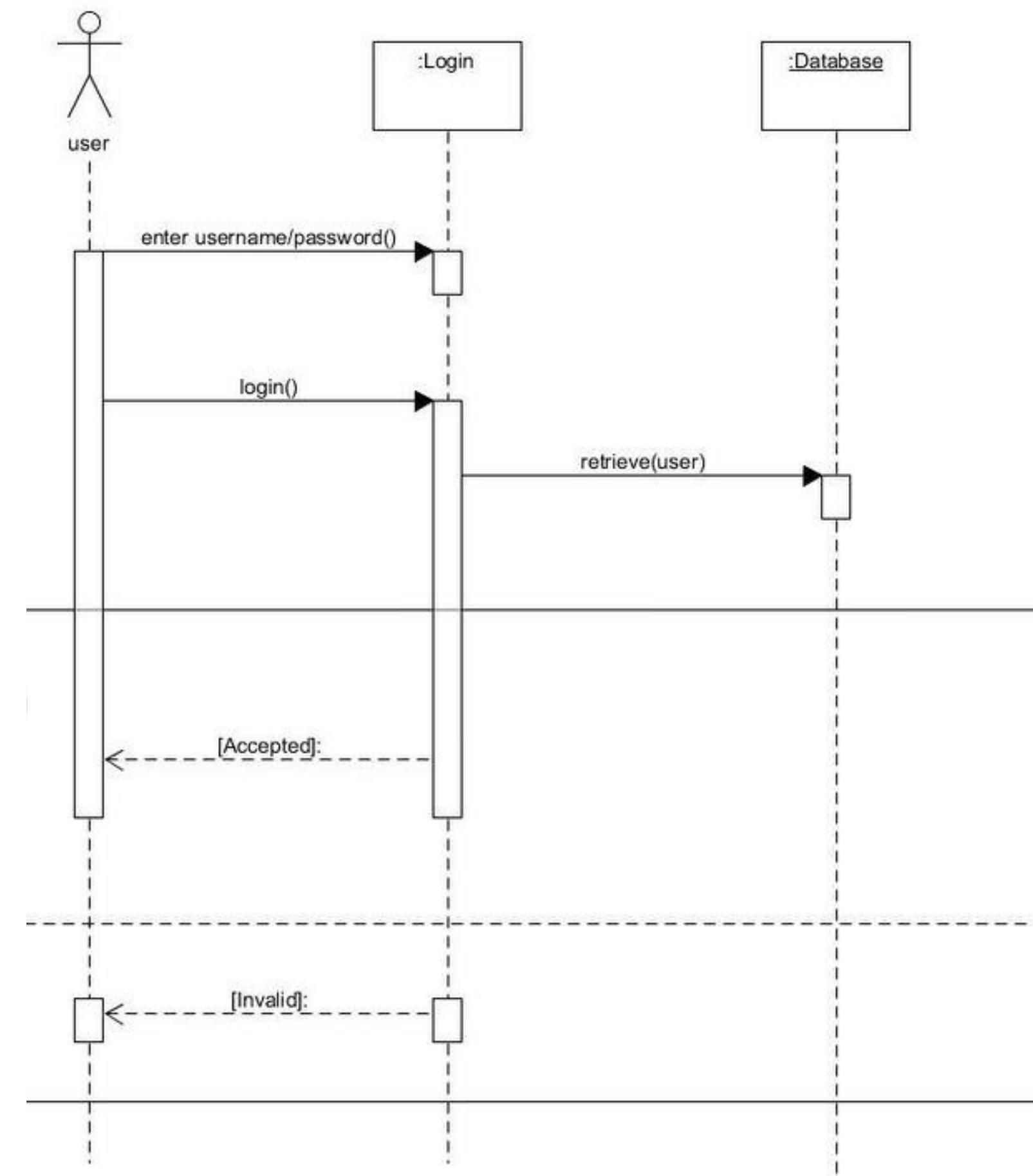


- Django-backend
 - Mail automation
 - Pandas
 - pyplot lib
 - Google auth api
 - Bootstrap CDN
- 
- Scikit-learn
 - ML-classifier
 - Mediapipe
 - OpenCV
 - Beautiful Soup
 - Numpy

USE CASE DIAGRAM



SEQUENCE DIAGRAM



ACTIVITY DIAGRAM

