

**SMART INDIA
HACKATHON
2022**

Basic Details of the Team and Problem Statement

Ministry/Organization Name/Student Innovation:
All India Council For Technical Education (AICTE)

PS Code: DR705

Problem Statement Title: Graphical Password Authentication

Team Name: Tech-know-brats

Team Leader Name: Khushi Sahay

Institute Code (AISHE): U-1056

Institute Name: Netaji Subhas University of Technology

Theme Name: Cyber Security

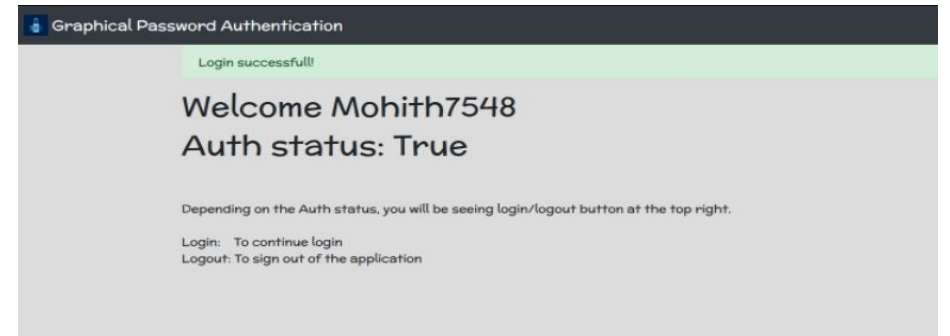
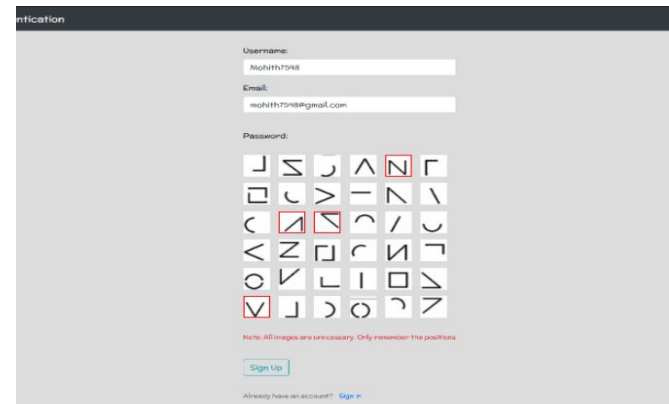
Idea/Approach Details

Describe your idea/Solution/Prototype here:

- The prototype consists of several stages:
 - Signup page using graphical authentication
 - Login page
 - Password reset page.
 - Mail received with password reset link
 - Account blocked due to multiple login attempts

The user will select a pattern from a group of random images and will login through the same pattern.

All the images will be unnecessary and only the position of the pattern chosen will matter.



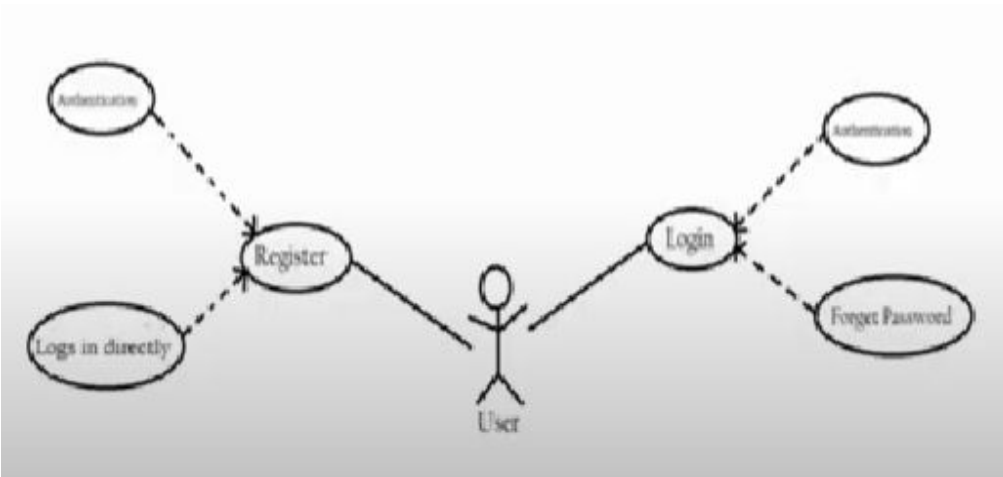
Describe your Technology stack here:

- DJANGO
- MongoDB

Idea/Approach Details

Describe your Use Cases here

- Login service
 - Net banking
 - Social media login
 - University management systems



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Describe your Dependencies / Show stopper here

- Image dataset creation and annotation.
- Encryption of datasets to prevent cyber attacks
- Impossible to hack.
- Password is based on positions of the image chosen.
- Images changes everytime the user logs in.
- The user receives the email for multiple wrong login attempts with a link to reset the password.

Team Member Details

Team Leader Name: Khushi Sahay

Branch: Btech

Stream (ECE, CSE etc): ECE

Year (I,II,III,IV): II

Team Member 1 Name: Aryan Gupta

Branch: Btech

Stream (ECE, CSE etc): ECE

Year (I,II,III,IV): II

Team Member 2 Name: Prateek Mishra

Branch: Btech

Stream (ECE, CSE etc): CSAI

Year (I,II,III,IV): II

Team Member 3 Name: Shivam Singla

Branch: Btech

Stream (ECE, CSE etc): CSAI

Year (I,II,III,IV): II

Team Member 4 Name: Aditya Verma

Branch: Btech

Stream (ECE, CSE etc): EE

Year (I,II,III,IV): II

Team Member 5 Name: Nimish Bhatia

Branch: Btech

Stream (ECE, CSE etc): CSAI

Year (I,II,III,IV): II

Team Mentor 1 Name: Dr. Mohinder Pal Singh Bhatia

Category (Academic/Industry): Academic

Expertise (AI/ML/Blockchain etc):

Domain Experience (in years): 30

Team Mentor 2 Name: Manusheel Gupta

Category (Academic/Industry): Academic

Expertise (AI/ML/Blockchain etc):

Domain Experience (in years): 15