



APP SECURITY **FINAL PRESENTATION**

What is EnvironMeet?

A social media web application for people interested in sustainability and the environment to meet like-minded individuals, get inspired and pursue sustainability causes together.

Features and functions

SOCIALISE

People from all walks of life who wants to help save the environment can converse with alike-minded people through EnvironMeet



EVENTS

Many types of events on environmental sustainability can be found and those interested can sign up through a form as well



SUSTAINABILITY MADE FUN

EnvironMeet gamifies sustainability by allowing users to earn points and climb the leaderboards whenever they participate in sustainability efforts.

Rohan's

Features



Application Features



Feed

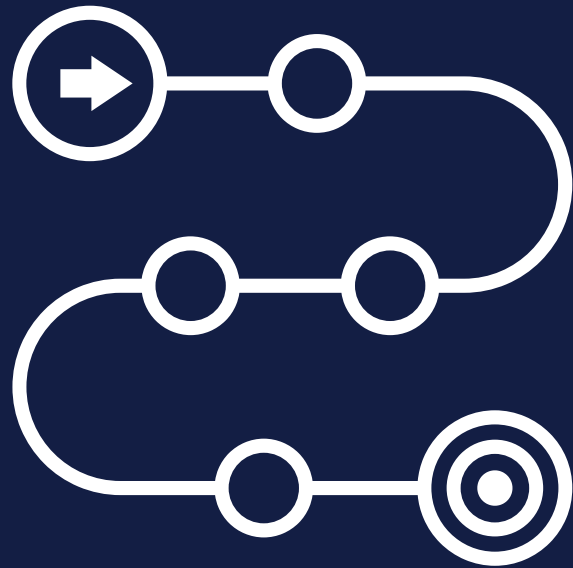
- ▶ Posting Function (CRUD)
- ▶ Comments (CRUD)
- ▶ Share Posts
- ▶ Like Posts

Chats

- ▶ Create Chat Room
- ▶ Join Chat Room
- ▶ Send Live Real-Time Messages



Security Features



Identifier Obfuscation

- ▶ ID-Hash Mappings
- ▶ Obfuscates Object Identifiers
- ▶ Acts as a Layer on top of access control to prevent IDOR

CSRF Prevention

- ▶ CSRF Token
- ▶ Mandatory for all Requests



Security Features



Input Validation

- ▶ Word Limit
- ▶ Escapes XSS and Injection attacks

Image Validation

- ▶ Virus Total Scan
- ▶ Image Randomisation
- ▶ File Header Check
- ▶ Image Compression



Security Features



Moderator Bot

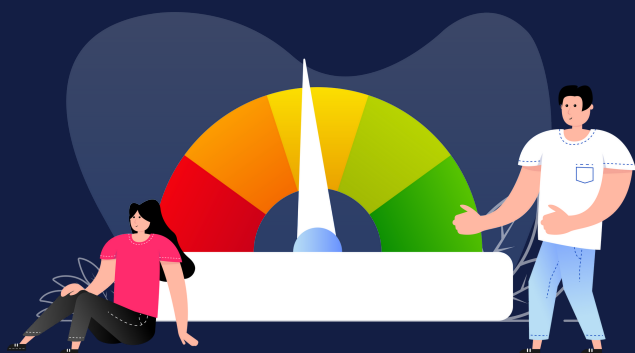
- ▶ Detects, logs, and sanitises potential XSS attempts
- ▶ Detects, log and redacts potential Phishing Links



Account Flagging System

- ▶ Flags accounts when suspicious activity detected
- ▶ Locks account after 5 flags

Security Features



Rate Limiting

- ▶ Layered Rate Limiting (etc. per minute and per day)



Integrity Monitoring

- ▶ AWS Lambda Function to check integrity of production code
- ▶ Cloudwatch to trigger function every minute for live monitoring

Security Features



Logging and Monitoring

- ▶ Logs to AWS OpenSearch Dashboards System
- ▶ Dashboard for Analysis
- ▶ Alerts sent to Slack Channel
- ▶ Acknowledge alerts once solved in OpenSearch
- ▶ Anomaly Detector to alert anomalies

THANK YOU

Let's make the Earth great (and secure) again.

