# AZURE WOMEN'S LACURE WOMEN'S IDEA SUBMISSION

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#### **PROBLEM STATEMENT**

Finding missing people using face recognition



## EVERY HOUR, AN AVERAGE OF 12 CHILDREN GO MISSING ACROSS INDIA.

NGO's estimate that between **12,000** and **50,000** women and children are trafficked into the country annually from neighbouring nations as a part of the sex trade.

Millions are trapped in a lucrative economy of forced labour, domestic slavery, and sex work.

Despite this, it rarely makes the news, and there is little public indignation or political resolve to put a stop to it.





#### **TECH STACK**





#### **BOOTSTRAP**

A free and open-source framework of HTML, CSS and JavaScript, directed at responsive, mobile-first front-end web development.



#### **DJANGO**

A free and open-source, high-level Python based web framework that enables rapid development of secure and maintainable websites.



#### **AZURE FACE API**

An AI service by Microsoft that can detect, identify and analyse faces in images and videos.





#### **BUSINESS ARCHITECTURE**





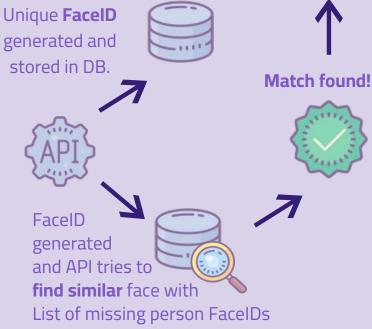
A Relative / Guardian registers a missing person.



A volunteer **reports** a **suspected missing person**.

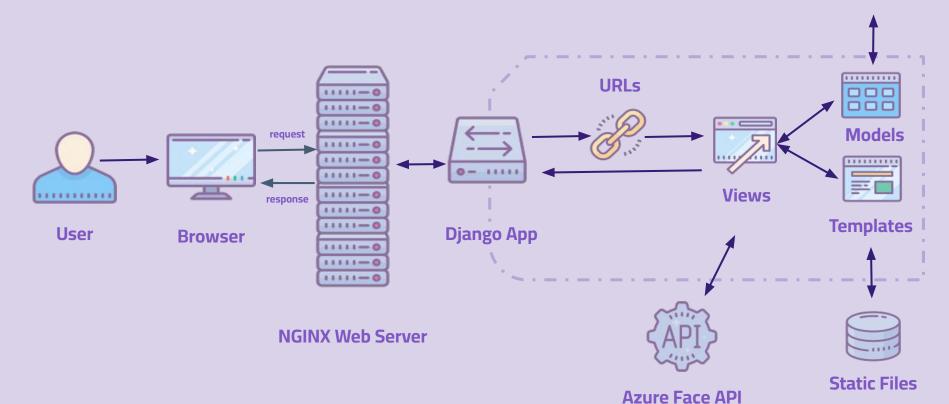


Admin **verifies** / conducts background check.



#### **TECH ARCHITECTURE**







# PROJECT DEMO















#### **LESSONS LEARNT**



### FINDING A PROBLEM TO SOLVE

Researching, finding a problem that resonates with you.





#### **AZURE API**

Experimenting with computer vision APIs etc

#### **BUILDING AN MVP**

Choosing an appropriate framework for rapid prototyping.





### CODING AND DOCUMENTATION

Writing clean and clear code, documenting code, making a github README file and so on.



#### **NEXT STEPS**

#### **PLUGINS**

Add more features such as,

- SMS verification
- Geo location from IP address while reporting
- PersonGroup,
   LargePersonGroup in Face
   API

#### **DEPLOYMENT**

So far only production covered, future plans include

- Deploying the site
- Sanitize traffic to prevent API throttling.

### ADMINS & SPONSORS

- verify, conduct
  background checks
  - Funding for hosting, API, etc







# THANK YOU!









