



SMART INDIA HACKATHON



**SMART INDIA
HACKATHON
2022**

MINISTRY/ORGANIZATION NAME : Department of School Education & Literacy (DoSEL), Ministry of Education.

PROBLEM STATEMENT : Monitoring safety in schools by the school, students, teachers and parents, with escalation of issues to District and state level with the help of an App masking the identity of person who escalates the issue.

PROBLEM CODE : RK786

TEAM LEADER: PRASTUTI JAIN

PROBLEM CATEGORY : Software

THEME : MedTech/BioTech/ HealthTech

TEAM NAME : ALPHACODER@

COLLEGE CODE : C-25248

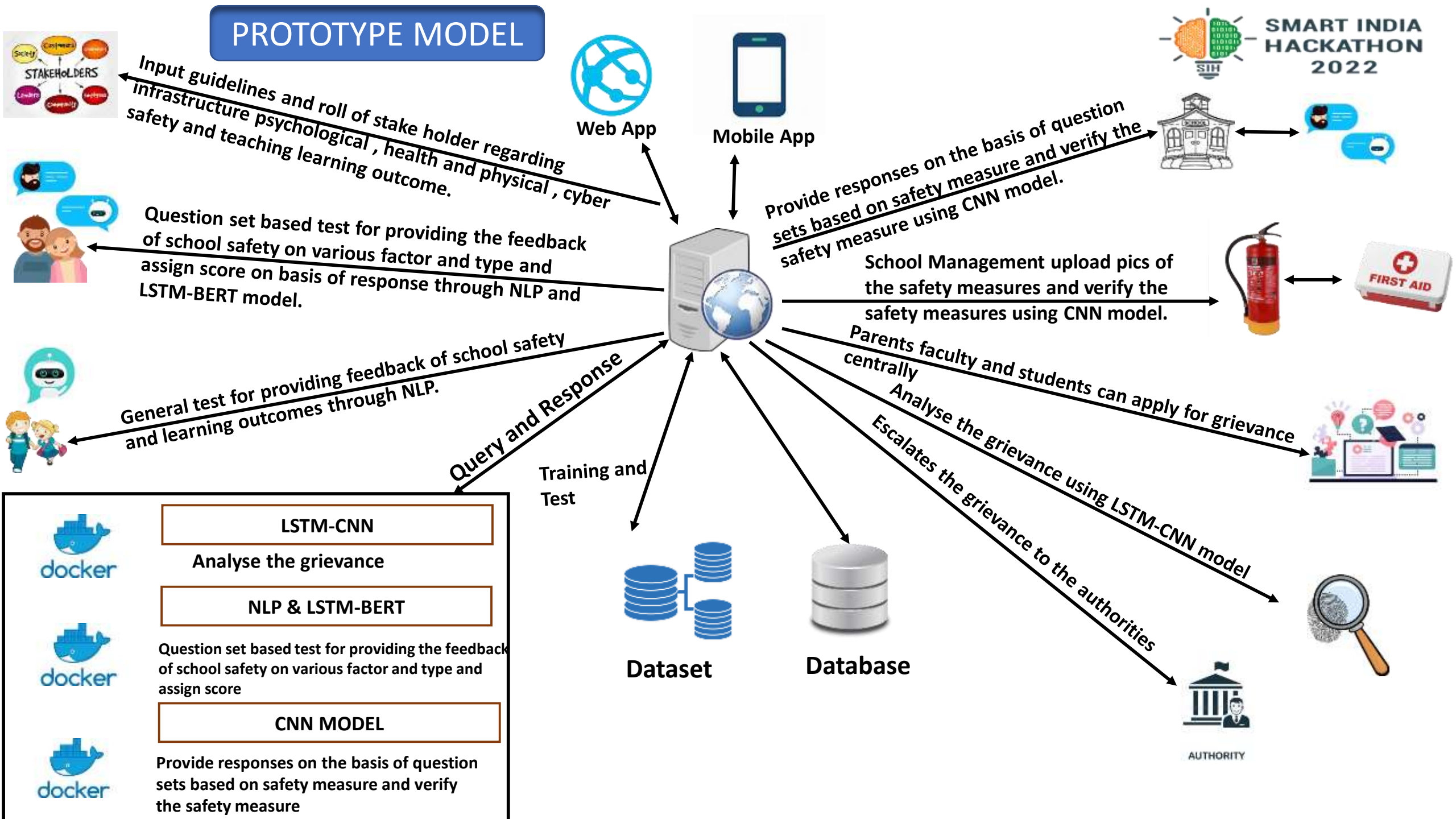


सत्यमेव जयते

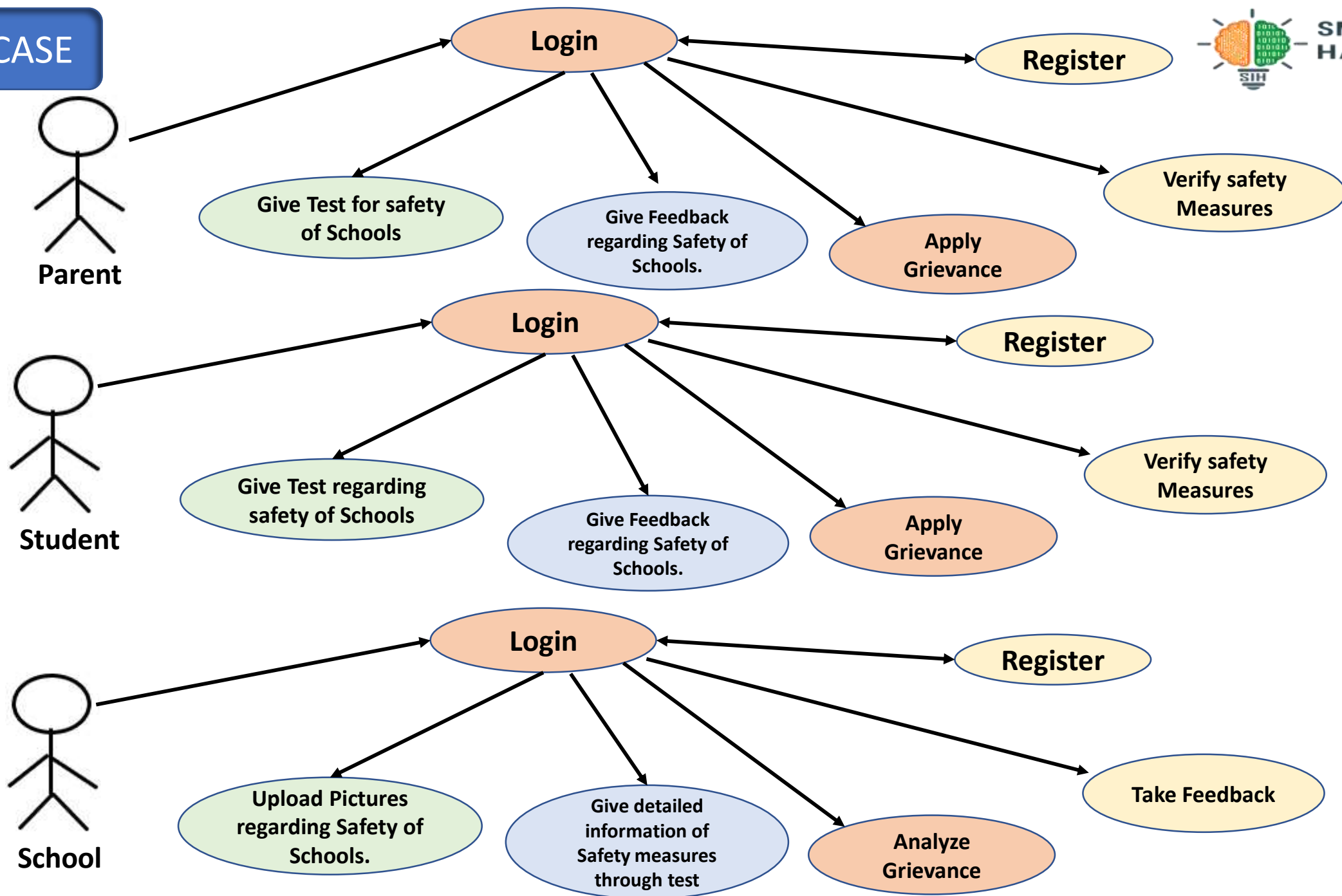
स्कूल शिक्षा और साक्षरता विभाग

Department of School Education & Literacy

PROTOTYPE MODEL



USE CASE



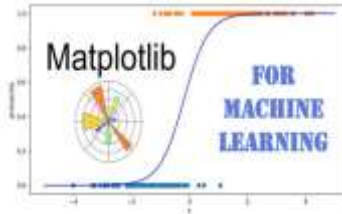
- We are developing a **Web and Mobile Application for the PWD candidates** to register on ADIP Scheme using technologies such as **Django, FastAPI, OpenCV, Flutter, Python, Postgre SQL, Matplotlib, CNN, Firebase, Spacy, Android SDK, Tensor Flow, NumPy, Keras.**
- Input guidelines and roll of **stake holder** regarding infrastructure psychological , health and physical , cyber safety and teaching learning outcome.
- Question set based test for providing the feedback of school safety on various factor and type and assign score on basis of response through **NLP** and **LSTM-BERT** model.
- General test for providing **feedback of school** safety and learning outcomes through **NLP**.
- Provide responses on the basis of question sets based on safety measure and verify the safety measure using **CNN model**.
- School Management upload pics of the safety measures and verify the safety measures using **CNN model**.
- Parents faculty and students can apply for **grievance centrally** .
- Analyse the grievance using **LSTM-CNN** model
- Escalates the grievance to the **authorities**.

TECHNOLOGY STACK



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django



spaCy



Android SDK



DEPENDENCIES/SHOW STOPPERS

- Depend on School Safety Information.
- Depend on Audience involvement.
- Depend on Model Accuracy.