

Team ID: B21-CAP0308

Active Member ID and Name:

1. A1131440 - Komang Nova Triana Cipta
2. A1131444 - Tri Aditya Agustiawan A1131444
3. C1211556 - Rizal Fathurrahman C1211556
4. C1211557 - Muhamad Rizal Dwi Adhipramana C1211557
5. M0020054 - Mega Silvia Hasugian M0020054
6. M0020099 - Mahanti Indah Rahajeng M0020099

Inactive Member ID and Name:

- 1.
- 2.
- 3.

Selected Theme : Women Empowerment and Child Protection

Title of the Project : [SIPAPA] Chatbot for reporting woman or child violence cases

Executive Summary :

How to create a private violence system reporting without human control directly (real-time)? As long as an increasing number of women and child violence cases with a small amount of customer care as a report platform provided by the Department of Child and Women's Protection. Moreover, we realized this issue related to the safety and psychological development of those people that will affect the quality of human resources in Indonesia. Those urgencies have been hit our mind to tackle this issue wisely. What is the effect if we plan an easy chatbot system that integrated with central control communication at KPPA?

Project Scope & Deliverables :

Project Scope	Deliverables	Learning Path
“Building chatbot model”	Generating and Exploring Conversation Data	Machine Learning
	Exploring AI chatbot framework	
	Training the first model	
	Evaluating the first model	
	Tuning model and parameter	
	Training model with the best configuration	
	Integration	
“Create an intuitive UI”	Exploring UI	Mobile Development
	Exploring android library to improve app performance	
	Create activity log for users	
	Integrate between front-end and back-end	
	Evaluate efficiency of resource usage	
	Use related API if available	

<i>"Integrating front-end with back-end app through http load balancer"</i>	Exploring dataset and analyze	Cloud Computing
	Setup billing account GCP	
	Set permission role in project	
	Collect all the necessary file	
	Create Vm Instance	
	Create Firewall rules	
	Create http load balancer	
	Deployment link app	
	Revision	
	Finishing	

Colour Notes :

- Yellow : Week 1 (6 May 2021 - 12 May 2021)
- Blue : Week 2 (13 May 2021 - 19 May 2021)
- Green : Week 3 (20 May 2021 - 26 May 2021)
- Red : Week 4 (27 May 2021 - 4 June 2021)

Project Schedule :

May-June 2021	6 - 12						13-19						20-26						27-4					
Start Working - Generating and Exploring Conversation Data - Exploring AI chatbot framework - Exploring UI - Exploring android library to improve app performance - Exploring dataset and analyze																								
Mentoring Session I																								
Middle Progress - Training the first model - Evaluating the first model - Tuning model and parameter - Training model with the best configuration - Create activity log for users - Integrate between front-end and back-end - Setup billing account GCP - Set permission role in project - Collect all the necessary file																								
Mentoring Session II																								
Finishing - Integration - Deployment link app - Revision - Finishing																								

Project Resources:

Role/Personnel

No.	Nama	Role	Github Repo
1	Komang Nova Triana Cipta	- Mobile Developer	-
2	Tri Aditya Agustiawan	- Mobile Developer	-
3	Mega Silvia Hasugian	- Machine learning Configuration	-
4	Mahanti Indah Rahajeng	- Machine learning Configuration	-
5	Muhamad Rizal Dwi Adhipramana	- Cloud Setting	-
6	Rizal Fathurrahman	- Cloud Setting	https://github.com/rizal1919/capstone_rizalfathurrahman.git

Paper/Journal/Articles :

- <https://jurnal.untan.ac.id/index.php/jepin/article/view/36003> (Rancang Bangun Aplikasi Pelaporan Kekerasan Terhadap Perempuan dan Anak pada DPPPA Provinsi Kalimantan Barat)

Dataset :

<https://databoks.katadata.co.id/datapublish/2021/03/12/hampir-300-ribu-kasus-kekerasan-terhadap-perempuan-terjadi-pada-2020>

<https://databoks.katadata.co.id/datapublish/2021/04/09/kasus-pengaduan-anak-naik-83-saat-pandemi-corona>

<https://databoks.katadata.co.id/datapublish/2021/04/12/kasus-kriminalitas-anak-didominasi-kekerasan-fisik>

[DeepPavlov/convai \(github.com\)](https://github.com/DeepPavlov/convai)

Risk and Issue Management Plan:

- Unable to find the appropriate data for training the model due to there are no available public dataset for violence report in Bahasa
- Failed configuration in Google Cloud Platform (command line, flags)
- Unable to find appropriate Library to build the apps