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Team ID: B21-CAP0420

Active Member ID and Name:

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6. M2582409 - Hadi Purnomo

Selected Theme: Political Stability, Rule of Law, National Security & Public Services Transformation

Title of the Project: Hukumpedia

Executive Summary:

1. Problem Statement : It is hard to observe and explore the applicable rule of laws in a short time for students, teachers/professors, activists, and any Indonesian citizen caught in a criminal case.
2. Research Question :
 1. Why is it hard to observe and explore the rule of laws?
 2. Why do we have a lot of rules?
 3. Why do every government institution make a rule of laws?
 4. Why don't they integrate their data in one place?
 5. Why do they make the rule of laws document in pdf format?
3. Background Information and why we choose this problem :

Indonesia is a state of law that has many laws and regulations, this is sometimes becoming a problem for some people to search, understand, or analyze the laws. This will certainly be a problem for legality harmony. Based on these problems we built a platform called Hukumpedia. This platform is expected to be a bridge for the community and government. From the government's point of view, Hukumpedia can help the process of socializing and integrating these regulations and laws. If the law is to be carried out intensively, then the rules made must be well understood by the community, so we can achieve a truly orderly society.

Project Scope & Deliverables:

1. Scope Description

This project involves building an app which has a characteristic to make the rule of laws easy to access and doesn't need a lot of time to explore, based on cloud and implemented in android platform. As for the cloud-related, it will contain a database about criminal law which applies in Indonesia. The app will consist of text classification features for doing machine learning tasks, as for the main usability of this app. Android platform is used as a medium for this app for the end product. The usage of this app is, the front-end user will input "text" data which will be processed with text classification, where the output will show related rule of laws in the context of inputted text before.

Project Deliverables

2. Major Project Activities:
 - Project planning
 - App designing
 - Text classification API
 - Setting up cloud environment

- Build android application

Deliverables:

- Project Plan
- Ready-to-use app
- Git documentation
- App manual
- Project Brief
- Presentation video
- Business proposal

3. Acceptance Criteria

Successfully show exact criminal law(woman, traffic, and ITE first) in the context of inputted text from the front-end user.

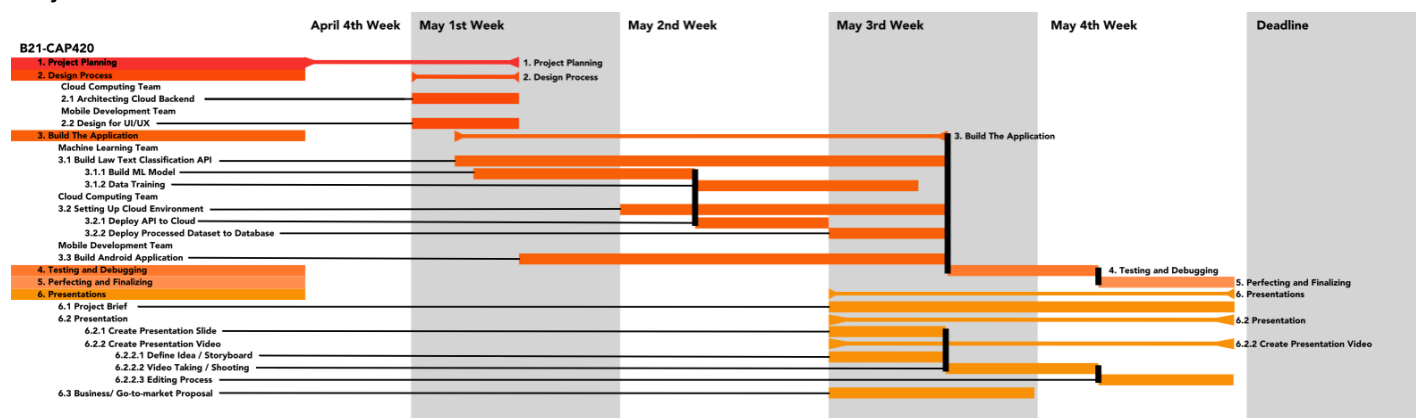
4. Constraints

Due to the limited platform for this app, the app will not be available besides the android platform.

5. Assumptions

The app will run on the specified requirement.

Project Schedule:



Project Resources:

The Budget : ~\$200 From Bangkit given Voucher. Used for GCP.

Roles

Roles	Responsibility	Member
Machine Learning	Build ML API	M2582409 - Ahmad Hanif Nurfauzi M2582409 - Hadi Purnomo
Cloud Computing	Setting up and Architecting for Cloud Environments	C0141316 - Julio Cancarito Mintarogo C0141319 - David Clemens Sumampouw
Android	Build Front-end Android Application	A2242182 - Aldi Jatika Dwiputra A2252186 - Ahmad Saifurrohman

Dataset : jdihn.go.id (focus on woman)

Publications that have Been explored :

- Badan Pusat Statistik (2020) Statistik Kriminal 2020
- J. Yang, H. Wang and K. Guo, "Natural Language Word Prediction Model Based on Multi-Window Convolution and Residual Network," in IEEE Access, vol. 8, pp. 188036-188043, 2020, doi: 10.1109/ACCESS.2020.3031200.

Risk and Issue Management Plan:

Risk	Consequence	Priority	Response Plan
Management / Organizational			
Accidentally overseed the GCP \$200 Budget	Cannot continue our project furthermore	Very Urgent	Use \$300 / GCP Account Free Trial.
External			
If there is already a similar idea what makes our apps different?	It makes our platform not gonna be looked at.	Important	Improve our platform Quality to be better.