



BUILD ON

INDONESIA 2021

BUILDING YOUR FUTURE

CHALLENGE STATEMENTS

Things to note

- Register for the hackathon [here](#) and await for us to contact your team leader. Challenge statements are on a first-come-first-served basis, please register early to avoid disappointment. When a challenge statement is fully subscribed, your team can no longer select it during registration.
- More info will be shared via email on the proposal template and details for submission. If you didn't receive the email, check your junk/spam folder.
- The top 6 teams per company will be [shortlisted based on their proposal](#), to proceed onto prototype development. Regardless if the company has provided 1 or 2 challenge statements, the company can only pick the top 6 teams who worked on their statements, for e.g.
 - Challenge statement A (1 team); Challenge statement B (5 teams)
 - Challenge statement A (3 teams); Challenge statement B (3 teams)
 - Challenge statement A (4 teams); Challenge statement B (2 teams)
 - Challenge statement A (6 teams)
- Subsequently, we will add your team members into the Slack channel for mentorship. You can discuss with your mentors if you require additional help/time from them. The top 6 shortlisted teams will also be provided with an AWS exclusive SWAG box.
- After 2 weeks of prototype development, you will be doing a live pitch against the other 5 teams in the Company Finale. You will be evaluated against [this set of judging metrics](#).
- Additional prizes and internship opportunities may be awarded by the individual companies at their own discretion.
- All hackathon participants will receive a certificate of participation.

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Challenge Statement #1

College recommendation application

For some students who have started to enter the higher education level, choosing a major feels a bit like a challenge. There are those who are still in a dilemma of choosing between the two, there are those who are still confused about which field to enter, and even they are still unsure about the choice they have. Many of them are still confused about choosing a college major.

Meanwhile, college majors are very important for the future. A college major is the foundation for getting through the next step. By studying in the right major and university, students can focus on developing their potential and also understand their career plans for the future.

The challenge is to design an application that can give recommendation of major and university to the high-school students based on grades and budget. Suppose the students wants to know the probability of his/her entering a major/university, the application can give a predictive score based on the grades and the budget of tuition fee that they input to the application.

Challenge: Design an application that can give recommendation of major and university to the high-school students based on grades and budget.

[Find out more about Fortress Data Services here](#)

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Challenge Statement #2

Migration

Media company wants to migrate their existing webapps environment to AWS.

Right now, they still using on premise environment.

They want to have new environment that will give them fault tolerant, scalability, reliability, secure, and cost optimize.

For the migration process, they hope it can be done with minimal downtime.

The web application based on PHP and database using MySQL.

What are the AWS services that will be needed, and what kind of migration approach that suitable for them?

[Find out more about ICS here](#)

Challenge Statement #3

Utilizing AI in an educational product marketplace

Due to the growing quantity of available educational product that are being offered, it is increasingly more important to categorize and tag a product properly so they can be recommended and searched properly by potential learners. In a marketplace environment, proper product tagging is less consistent as there are different instructor for the different products.

Challenge: Develop a solution that can utilize AI to analyze a product's different multimedia formats such as video, text, audio and suggest the most proper tags for the said product

[Find out more about MauBelajarApa here](#)

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Challenge Statement #4

Academic Information System

Currently, many universities are still having difficulties in managing academic activity data (lecturer data, student data, registration, scheduling and other academic administration) both for daily operational needs and fulfillment of accreditation data (BAN-PT Accreditation in Indonesia). So, we need a cloud-based academic information system platform that supports Multi Tenancy (one institution, one domain/sub-domain, one database), so that universities that do not yet have infrastructure and adequate human resources can take advantage of this platform easily with affordable price.

Challenge: Design and development a platform academic information system with AWS Architecture that can run Multi Tenancy Architecture (one institution, one domain/sub-domain, one database).

[Find out more about Bandung Techno Park here](#)

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Challenge Statement #5

Land market place platform

Land ownership is a very sensitive matter, to prevent it from being controlled or used by unauthorized parties, a land certificate is issued. However, even with the land certificate, there are still many parties who falsify the land certificate for their own interests. Buying and selling land becomes more risky to be cheated.

Challenge: Design and develop a market place platform for buying and selling land using blockchain technology to issue certificates, make transactions, validate users so that buying and selling land can be more secure and transparent.

[Find out more about Bandung Techno Park here](#)