LAPORAN AKHIR

STUDI INDEPENDEN BERSERTIFIKAT

Cloud Computing

Studi Independen

Di Bangkit Academy 2024 by Google, GoTo, Traveloka

Yayasan Dicoding Indonesia

Zico Marchellino

11121334

Nama Dosen Pendamping Program (DPP) :
Dinny Wahyu Widarti, S.Kom., MMSI

SISTEM INFORMASI
UNIVERSITAS GUNADARMA
2024

Kata Pengantar

Segala puji Syukur kehadirat Tuhan YME, Tuhan semesta alam atas Limpahan Rahmat dan karunia-Nya sehingga penulis dapat menyelesaikan laporan akhir di Yayasan Dicoding Indonesia dengan lancar, Laporan Akhir ini dibuat untuk memenuhi tugas program Kampus Merdeka.

Dalam penyusunan laporan akhir ini, penulis tidak lupa mengucapkan terimakasih kepada :

1. Bapak Setia Wirawan selaku KAPRODI dan juga dosen pembimbing MSIB Batch 6 di Universitas Gunadarma

2. Kedua orang tua saya beserta kakak dan abang saya yang telah memberi dukungan untuk dapat mengikuti kegiatan ini.

3. Kak Nahdhiyah selaku mentor dari Yayasan Dicoding Indonesia saya dari grup CC-22.

4. Ibu Winarti, S.Kom., MMSI Selaku Supervisor Dari Universitas Gunadarma.

5. Ibu Dinny Wahyu Widarti, S.Kom., MMSI Selaku Dosen Pembimbing Dari Yayasan Dicoding Indonesia.

6. Teman Teman dari Yayasan Dicoding Indonesia dan CC-22 yang telah membantu saya untuk mengerjakan tugas tugas dari Yayasan Dicoding Indonesia.

7. Zico Marchelino,Inas Hamidah, Febraldi, Muhammad Luthfi Juliandri, Muhammad Iqbal Rafid Santoso, Mubdi Hariyanto.sebagai partner pengembangan project akhir "FishGenius"

8. Yayasan Dicoding Indonesia yang sudah memberi kesempatan saya untuk dapat berpartisipasi, mengenal dan mempelajari dunia Cloud Computing

Bekasi, Juni 2024

(Zico Marchellino)

Daftar Isi

Daftar Tabel

I. Gambaran Umum

A. Profil Perusahaan

Bangkit merupakan sebuah program untuk mempersiapkan peserta dengan kecakapan kemampuan yang relevan dan dibutuhkan berdasarkan sertifikasi teknikal. Bangkit menyediakan tiga alur belajar multi-diisiplin - Machine Learning, Mobille Development (Android), dan Cloud Computing. Dengan mengikuti program ini, peserta diharapkan dapat memperoleh pengalaman untuk persiapan karir di industry dan pekerjaan di ekosistem teknologi di Indonesia.

Bangkit merupakan program pembelajaran yang difasilitasi oleh google dengan dukungan GoTo, Traveloka. Dengan partisipasinya pada kampus merdeka, Bangkit menawarkan 6.000 tempat untuk mahasiswa Indonesia untuk mempersiapkan karir mereka dalam teknologi digital setelah lulus nantinya.

Adapun struktur organisasi merupakan sebuah garis penugasan formal yang menunjukkan alur tugas dan tanggung jawab setiap anggota organisasi serta hubungan antar pihak dalam organisasi yang bekerja sama untuk mencapai suatu tujuan organisasi. Berikut adalah struktur organisasi dari Bangkit Academy

Bangkit Academy 2024 Organizational Chart

Dora Songco
Google Indonesia

Narenda Wicaksono
Program Lead
Bangkit Academy

Mutiara Arumsari
ID Program Manager
Bangkit Academy

Irene Gloria P N
Learning Support Manager
Bangkit Academy

Deti Anggraini
Cohort Manager
Bangkit Academy

Tia Dwi Setiani
Curriculum Manager
Bangkit Academy

Communication and
Partnership Team

Learning Support
Team

Cohort Management
Team

Curriculum Team

B. Deskripsi Kegiatan

Posisi   : Bangkit Academy 2024 By Google, GoTo, Traveloka - Cloud
                 Computing Learning Path

Deskripsi   : Aktivitas Studi Independen Cloud Computing Learning Path meliputi pembelajaran individu dan project akhir dalam bentuk tim. Pada pembelajaran individu, setiap peserta akan mengikuti kelas dalam bentuk asynchronous (online melalui modul belajar di Dicoding Academy, Coursera, dan Google Cloud Skills Boost) dimana peserta dapat berkonsultasi dengan expert terkait materi yang dipelajarinya. Selain itu, setiap peserta akan memiliki pembimbing sebagai tempat konsultasi jika ditemui kesulitan non-akademik dalam mengikuti pembelajaran.

Kompetensi yang dikembangkan :

1. *Google IT Support Professional Certificate*
2. *Belajar Dasar Pemograman Web*
3. *Simulasi Ujian Associate Cloud Engineer*

4. *Application Development with Cloud Run*

5. *Inisiatif, Proaktif, Bertanggung Jawab*

6. *Refleksi Diri*

7. *Bahasa Inggris*

8. *Review Materi*

9. *Tugas Soft Skill*

10. *Pembelajaran Soft skills dan Penyiapan Karir atau startup*

11. *Capstone Project / Proyek Akhir*

12. *Menjadi Google Cloud Engineer*

13. *Belajar Dasar AI*

14. *Google Cloud Computing Foundations*

15. *Google Cloud Engineer Learning Path*

16. *Belajar Dasar Pemograman JavaScript*

17. *Belajar Membuat Aplikasi Back-End untuk Pemula dengan Google Cloud*

18. *Belajar Penerapan Machine Learning dengan Google Cloud*

Tuliskan secara singkat hal apa yang telah dilakukan selama program :

Selama saya mengikuti kegiatan di Yayasan Dicoding Indonesia / Bangkit saya mendapatkan Pelajaran mengenai cara install Server menggunakan Google Cloud, Mempelajari Public Speaking dengan Bahasa Inggris, Menerapkan Time Managament dalam kehidupan saya.

II. Aktivitas Bulanan

Pada Bagian ini berisi aktivitas bulanan yang dapat diambil dari laporan bulanan yang sudah dibuat di dalam platform dengan format sebagai berikut

Bulan	Kegiatan
1	**How are mentoring activities and coordination with Mentor & DPP?** 1. As long as I reported complaints/problems to the Mentor and DPP, I responded well, and the explanations given by my Mentor and DPP were quite easy to understand.

	When I took part in the weekly consultation, before starting we had a game for about 15 minutes. so that the class atmosphere is enjoyable. **What have you been working on and how is it progressing?** 2. While I was taking part in awakening activities, I did ILT-EN, ILT-CC, ILT SS activities. Courses from Dicoding, Coursera and Google Cloud Skill Boost as well as assignments from Google Classroom **What challenges are faced and provide alternative solutions to face them?** 3. The challenges I face, I become more challenging about deadlines, and I will fight this feeling of laziness. Previously, I was working on assignments with a 2-day deadline, since taking part in awakening activities, **What are and explain the competency development that has been obtained?** 1. Introduction of Cloud Computing 2. Usecase for Cloud Computing 3. Introduction of On-Promise Cloud Server, Public Cloud Server, Private Cloud Server and Hybrid Cloud Server, Introduction of IaaS, PaaS, and SaaS 4. Learning English Studying
2	**How are mentoring activities and coordination with Mentor & DPP?** As long as I reported complaints/problems to the Mentor and DPP, I responded well, and the explanations given by my Mentor and DPP were quite easy to understand.

When I took part in the weekly consultation, before starting we had a game for about 15 minutes. so that the class atmosphere is enjoyable. and my mentor asking progress in my activity.

What have you been working on and how is it progressing?
While I was taking part in awakening activities, I did ILT-EN, ILT-CC, ILT SS activities. Courses from Dicoding, Coursera and Google Cloud Skill Boost as well as assignments from Google Classroom

What challenges are faced and provide alternative solutions to face them?
The challenges I face, I become more challenging about deadlines, and I will fight this feeling of laziness. Previously,

What are and explain the competency development that has been obtained?
1.Online Learning #03 - Google Cloud Computing Foundations (GCCF)
i studying about Google Cloud Computing Foundations: Cloud Computing, Google Cloud Computing Foundations: Infrastructure in Google Cloud, Google Cloud Computing Foundations: Networking & Security in Google Cloud and 5 course again.
2. Assignment: Time and Energy Management
3. Mentor and Team bangkit annoucment about Bangkit Capstone Project.
4. Assignment: Stress Management, Adaptability, and Resilience
5. New activity at Weekly Consultation 6, ILT-CC-03-AG Defending the Digital Realm: Network and Security,

	6. and mentor create Study Group @ Sat Apr 6, before Eid al-Fitr 2024.
3	**A. How are the mentoring and coordination activities with the Mentor & DPP?** As long as I reported complaints/problems to my Mentor and DPP, I responded well, and the explanations given by my Mentor and DPP were quite easy to understand. When I attend weekly consultations, before starting we play for about 15 minutes. so that the class atmosphere is pleasant. and my DPP & Bangkit mentor always asks about the progress of my activities and asks whether there were any obstacles during the rise or not :). **B. What are you working on and how is it progressing?** While I was taking part in revival activities, I carried out ILT-EN, ILT-CC, ILT SS activities. Courses from Dicoding, Google Cloud as well as assignments from Google Classroom regarding ILT Sessions, and in the CC-22 group there is a study group, where we study together between the CC-22 groups. **C. What challenges are faced and provide alternative solutions to face them?** When I followed the movement, I became more disciplined in doing my assignments and managed my time very well. **D. What are and explain the development of competencies that have been obtained?** 1. #05 - Cloud Computing - Javascript Basic (Dicoding Platform) 2. #06 - Cloud Computing - (Google Cloud) Back End Basic (Dicoding Platform) 3. Soft Skills Assignment 5 - Project Management (Essay in Google Form) 4. #07 - Cloud Computing - Becoming a Google Cloud Engineer

		(Dicoding Platform) 5. ILT-CC-05-AE From Idea to Interface: Building APIs in Google Cloud (Pratice in Google Meet)
	4	**A.How are the mentoring and coordination activities with the Mentor & DPP?** As long as I reported complaints/problems to my Mentor and DPP, I responded well, and the explanations given by my Mentor and DPP were quite easy to understand. When I attend weekly consultations, before starting we play for about 15 minutes. so that the class atmosphere is pleasant. and my DPP & Bangkit mentor always asks about the progress of my activities and asks whether there were any obstacles during the rise or not :). **B. What are you working on and how is it progressing?** While I was taking part in revival activities, I carried out ILT-EN, ILT-CC, ILT SS activities. Courses from Dicoding, Google Cloud as well as assignments from Google Classroom regarding ILT Sessions, and in the CC-22 group there is a study group, where we study together between the CC-22 groups. **C.What challenges are faced and provide alternative solutions to face them?** When I followed the movement, I became more disciplined in doing my assignments and managed my time very well. **D. What are and explain the development of competencies that have been obtained?** 1.Online Learning #07 - Cloud Computing - Becoming a Google Cloud Engineer (Dicoding) 2. Bi Weekly Feedback to Mentor #6 3. Online Learning #08 - Cloud Computing - Introducing to AI (Dicoding) 4. #09 - Cloud Computing - Applied Machine Learning for Cloud Engineer (Dicoding)

	5. ILT-EN-03-016 Business Presentation 6. #10 - Cloud Computing - Application Development with Cloud Run (Dicoding) 7. #11 - Cloud Computing - Preparing for Associate Cloud Engineer Certification(Dicoding) 8. Capstone Project Mentorship — C241—PS311 with Kak Uray Febri Isviladinata (May 26, 2024 · 1pm – 3pm WIB) 9. Capstone Project Mentorship - C241-PS311 @ Tue May 28, 2024 8pm - 8:45pm (WIB) 10. Weekly Consultation 15 - CC-22 @ Tue Jun 4, 2024 7:30pm - 8:30pm (GMT+7)
5	**A. How are the mentoring and coordination activities with the Mentor & DPP?** As long as I reported complaints/problems to my Mentor and DPP, I responded well, and the explanations given by my Mentor and DPP were quite easy to understand. When I attend weekly consultations, before starting we play for about 15 minutes. so that the class atmosphere is pleasant. and my DPP & Bangkit mentor always asks about the progress of my activities and asks whether there were any obstacles during the rise or not/ **B. What are you working on and how is it progressing?** While I was taking part in revival activities, I carried out ILT-EN, ILT-CC, ILT SS activities. Courses from Dicoding, Google Cloud as well as assignments from Google Classroom regarding ILT Sessions, and in the CC-22 group there is a study group, where we study together between the CC-22 groups. **C. What challenges are faced and provide alternative solutions to face them?** When I followed the movement, I became more disciplined in doing my assignments and managed my time very well. and understand about Deploy API, Manage server and database in cloud

	D. What are and explain the development of competencies that have been obtained? 1. Invitation: Weekly Consultation 17 - CC-22 @ Wed Jun 19, 2024 7:30pm - 8:30pm (GMT+7). 2. Invitation: Weekly Consultation 18 - CC-22 @ Mon Jun 24, 2024 7:30pm - 8:30pm (GMT+7). 2. Working on a Capstone Project with my team called "FishGenius App" and the application is already running 100% then preparing a Product brief, PPT and Video Demo for presentation on June 25 2024.

Tabel 1.0 Aktivitas Bulanan

1. Online self-paced learning

Online self-paced learning di mana peserta perlu menerapkan materi yang telah dipelajari secara langsung melalui proyek dan tugas-tugas yang harus diselesaikan untuk menuntaskan setiap materinya. Berikut merupakan materi yang diharuskan selesai setiap minggunya.

Tanggal	Deskripsi
19 - 27 Februari 2024	Google IT Support (The Bits and Bytes of Computer Networking) Google IT Support (System Administration and IT Infrastructure Services (up to What is System Administration) Google IT Support (System Administration and IT Infrastructure Services (up to done))

26 Februari - 6 Maret 2024	Belajar Dasar Pemrograman Web (s/d: Warna untuk Teks dan Latar Belakang) Belajar Dasar Pemrograman Web (s/d: selesai)
4 - 16 Maret 2024	Google Cloud Computing Foundations (Google Cloud Computing Foundations: Cloud Computing Fundamentals) Google Cloud Computing Foundations (Google Cloud Computing Foundations: Infrastructure in Google Cloud) Google Cloud Computing Foundations (Google Cloud Computing Foundations: Networking & Security in Google Cloud) Google Cloud Computing Foundations (Google Cloud Computing Foundations: Data, ML, and AI in Google) Google Cloud Computing Foundations (Implement Load Balancing on Compute Engine (Quest)) Google Cloud Computing Foundations (Set Up an App Dev Environment on Google Cloud (Quest)) Google Cloud Computing Foundations (Build a Secure Google Cloud Network (Quest)) Google Cloud Computing Foundations (Prepare Data for ML APIs on Google Cloud (Quest))
18 - 20 Maret 2024	Google Cloud Engineer Learning Path (Preparing for your Associate Cloud Engineer Journey (up to done))

	Google Cloud Engineer Learning Path (Google Cloud Fundamentals: Core Infrastructure) Google Cloud Engineer Learning Path (Essential Google Cloud Infrastructure: Foundation) Google Cloud Engineer Learning Path (Essential Google Cloud Infrastructure: Core Services) Google Cloud Engineer Learning Path (Elastic Google Cloud Infrastructure: Scaling and Automation) Google Cloud Engineer Learning Path (Getting Started with Google Kubernetes Engine) Google Cloud Engineer Learning Path (Logging and Monitoring in Google Cloud (up to Monitoring Critical Systems)) Google Cloud Engineer Learning Path (Logging and Monitoring in Google Cloud (up to Advanced Logging and Analysis)) Google Cloud Engineer Learning Path (Logging and Monitoring in Google Cloud (up to done)) Google Cloud Engineer Learning Path (Getting Started with Terraform for Google Cloud) Google Cloud Engineer Learning Path (Develop Your Google Cloud Network (Quest)) Google Cloud Engineer Learning Path (Build Infrastructure with Terraform on Google Cloud)

	Belajar Dasar Pemrograman JavaScript (up to Struktur Data)
22 April – 28 April 2024	Belajar Dasar Pemrograman JavaScript (up to done) Belajar Membuat Aplikasi Back-End untuk Pemula dengan Google Cloud (up to Pengenalan Back-End)
29 April - 9 May 2024	Belajar Membuat Aplikasi Back-End untuk Pemula dengan Google Cloud (up to Penutup) Belajar Membuat Aplikasi Back-End untuk Pemula dengan Google Cloud (up to done)
6 May - 19 May 2024	Introduction to AI
13 May - 23 May 2024	Applied Machine Learning for Cloud Engineer (up to Vertex AI) Applied Machine Learning for Cloud Engineer (up to done)
20 May - 28 May 2024	Application Development with Cloud Run
27 May - 9 Juni 2024	Simulasi Ujian Associate Cloud Engineer

Tabel 1.1 Online self-paced learning

1.2 Online synchronous learning

Online synchronous learning, adalah metode di mana peserta harus menghadiri sesi tatap muka secara online, seperti pelatihan yang dipandu oleh instruktur, sesi pengembangan softskill, pembelajaran bahasa Inggris, kelompok belajar, sesi dengan pembicara tamu, dan lain sebagainya.

A. Non ILT-EN/ILT-CC Session

Tanggal	Deskripsi
February-19, 2024·9:00 – 11:00am	Bangkit 2024 Empower Your Tomorrow: Unlocking Your Infinite Potential
Thursday, February 22, 2024·10:00 – 11:30am	Acara Lepas Sambut Bangkit 2024
Monday, February 19, 2024·1:00 – 4:00pm	Bangkit 2024 Technical Briefing Session
Wednesday, March 6·1:00 – 3:00pm	Bangkit 2024 Batch 1 - Student Team Meeting 1
Thursday, April 18·10:00am – 12:00pm	Bangkit 2024 Batch 1 - Student Team Meeting 2
Monday, May 13·1:00 – 2:30pm	Bangkit 2024 Batch 1 - Student Team Meeting 3
Monday, June 10·1:00 – 3:00pm	Bangkit 2024 Batch 1 - Student Team Meeting 4
Wednesday, March 13·1:00 – 3:00pm	Capstone Briefing #1
Tuesday, April 16·1:00 – 3:00pm	Capstone Briefing #2

Tuesday, June 4·1:00 – 3:00pm	Capstone Briefing #3: Product Track

Tabel 1.2 Kegiatan Wajib Bangkit

A. ILT-EN/ILT-CC Session

Online synchronous learning, adalah metode di mana peserta harus menghadiri sesi tatap muka secara online, seperti pelatihan yang dipandu oleh instruktur, sesi pengembangan softskill, pembelajaran bahasa Inggris, kelompok belajar, sesi dengan pembicara tamu, dan lain sebagainya.

Tanggal	Deskripsi
Friday, February 23, 2024·6:30 – 8:30pm	ILT-SS-01-DF Growth Mindset and The Power of Feedback
Wednesday, February 28, 2024·6:30 – 8:30pm	ILT-CC-01-AZ Navigating the Google Cloud: Your First Steps
Tuesday, March 5·6:30 – 8:30pm	ILT-SS-02-AW Time and Energy Management
Wednesday, March 13·3:30 – 5:30pm	ILT-CC-02-AM Journey into the Cloud: Google Cloud's Compute, Storage, and Database

Friday, March 22·3:30 – 5:30pm	ILT-SS-03-DI Stress Management, Adaptability, and Resilience
Tuesday, March 26·3:30 – 5:30pm	ILT-CC-03-AG Defending the Digital Realm: Network and Security in Google Cloud
Friday, April 5·9:00 – 11:00am	ILT-SS-04-CU Critical Thinking and Problem Solving
Thursday, February 29, 2024·3:30 – 5:00pm	ILT-EN-01-019 Spoken Correspondence
Thursday, April 18·1:00 – 3:00pm	ILT-CC-04-AQ Logs, Metrics, and More: Discovering Observability with Google Cloud
Friday, April 19·1:00 – 3:00pm	ILT-CC-04-AX Logs, Metrics, and More: Discovering Observability with Google Cloud
Wednesday, April 24·6:30 – 8:30pm	ILT-SS-05-BN Project Management
Thursday, May 2·3:30 – 5:30pm	ILT-CC-05-AE From Idea to Interface: Building APIs in Google Cloud
Friday, May 10·1:00 – 3:00pm	ILT-SS-06-CX Professional Branding and Networking

Tuesday, May 14·1:00 – 3:00pm	ILT-CC-06-AG Your Path to AI Project Success: Innovating with Google Cloud
Wednesday, April 17·3:30 – 5:00pm	ILT-EN-02-007 Expressing Opinions
Tuesday, May 21·9:00 – 10:30am	ILT-EN-03-016 Business Presentation
Wednesday, May 22·1:00 – 3:00pm	ILT-SS-07-BW Effective Communication
Tuesday, May 28·1:00 – 3:00pm	ILT-CC-07-AH Certify with Confidence: Your Ultimate ACE Preparation Guide

Tabel 1.3 ILT-EN Dan ILT-CC Session

C. Reflection & Consultation

Sekali dalam seminggu setiap siswa berkesempatan merefleksikan pembelajarannya kepada pembimbing atau mentor pada masing masing path yang disediakan. Sesi konsultasi mingguan adalah sebagai berikut.

Wednesday, February 21, 2024·3:30 – 4:30pm	Weekly Consultation 1 - CC-22
Monday, February 26, 2024·7:30 – 8:30pm	Weekly Consultation 2 - CC-22

Monday, March 4·7:30 – 8:30pm	Weekly Consultation 3 - CC-22
Thursday, March 14·2:00 – 3:00pm	Weekly Consultation 4 - CC-22
Wednesday, March 20·3:30 – 4:30pm	Weekly Consultation 5 - CC-22
Thursday, March 28·2:00 – 3:00pm	Weekly Consultation 6 - CC-22
Thursday, April 4·2:00 – 3:00pm	Weekly Consultation 7 - CC-22
Monday, April 15·7:30 – 8:30pm	Weekly Consultation 8 - CC-22
Monday, April 22·7:30 – 8:30pm	Weekly Consultation 9 - CC-22
Monday, April 29·7:30 – 8:30pm	Weekly Consultation 10 - CC-22
Monday, May 6·7:30 – 8:30pm	Weekly Consultation 11 - CC-22
Monday, May 13·7:30 – 8:30pm	Weekly Consultation 12 - CC-22
Monday, May 20·7:30 – 8:30pm	Weekly Consultation 13 - CC-22
Monday, May 27·7:30 – 8:30pm	Weekly Consultation 14 - CC-22
Tuesday, June 4·7:30 – 8:30pm	Weekly Consultation 15 - CC-22

Monday, June 10·7:30 – 8:30pm	Weekly Consultation 16 - CC-22
Wednesday, June 19·7:30 – 8:30pm	Weekly Consultation 17 - CC-22
Monday, June 24·7:30 – 8:30pm	Weekly Consultation 18 - CC-22
Monday, July 1·7:30 – 8:30pm	Weekly Consultation 19 - CC-22

Tabel 1.4 Reflection & Consultation

3. Capstone Project

Capstone Project, dimana peserta mengerjakan proyek tim berskala nasional untuk memecahkan masalah yang ada di sekitar mereka. Penulis bersama tim membuat aplikasi yang bernama *FishGenius*. *FishGenius* adalah aplikasi edukasi inovatif yang bertujuan untuk memberikan edukasi yang akurat dan mudah diakses tentang keterampilan budidaya ikan. Kami menyadari terbatasnya ketersediaan sumber daya atau platform pendidikan digital untuk pendidikan yang efektif tentang teknik budidaya ikan. Pertanyaan penelitian kami berkisar pada pembuatan antarmuka edukasi yang menarik dan mencerahkan yang mencakup beragam budidaya spesies ikan dan merangsang keterlibatan pengguna secara aktif dalam pembelajaran.

Tanggal	Kegiatan
20 April 2024	Group Submission Form
3 Mei 2024	Advisor Requirements Submission Form
13 Mei 2024	Project Plan for Product Track
22 Mei 2024	Revise project plan for product track

20 – 26 Mei 2024	Capstone Activity : Week 1 Meeting with the team and determining the UI/UX design of the initial appearance of the initial appeareance of the application when logging in and registering, meetings to work on project planning.
26 Mei 2024	Mentoring Session Project Management
27 Mei – 2 Juni 2024	Capstone Activity : Week 2 This week, I shared the UI Logo and splashScreen of our application with our mentor, and also we mobile developers have started making programs, such as splashScreen, User Register & Login, class and profile features.
28 Mei 2024	Mentoring Session Mobile Development

3 - 9 Juni 2024	Capstone Activity : Week 3 This week we created a fragment home design, and also met with our capstone team to report on their respective progress, as well as creating a github repository.
10 - 20 Juni 2024	Capstone Activity : Week 4 This week, we held a group meeting to develop a project brief. As a mobile developer, I have created a fragment detection class and layout to take images and detect fish according to the model that has been developed by the machine learning team. I managed to implement a class to detect fish and ensure that it matches the model provided by the ML team, so that fish can be detected through images. Apart from that, I assisted Zico Marchelino in creating data classes that will be used as API.

21 Juni 2024	Project brief for product track Submision Project Brief & project Capstone
25 Juni 2024	R41 - [Bangkit 2024 H1] Presentation & Peer Review Session

Tabel 1.5 Daftar Aktivitas Capstone Project.

Penutup

A. Kesimpulan

1. **Proses Pelaksanaan MSIB**: Proses pelaksanaan MSIB di Mitra dapat dianggap baik karena adanya dukungan yang kuat dari tim manajemen serta penggunaan metodologi yang terstruktur. Tim pengelola MSIB di Mitra juga menunjukkan komitmen yang tinggi terhadap pengembangan karyawan.

2. **Substansi yang Dikerjakan (Cloud Computing)**: Studi dalam bidang *cloud computing* memberikan pemahaman mendalam tentang teknologi tersebut, termasuk implementasi, manajemen risiko, dan strategi pengembangan infrastruktur IT berbasis awan. Hal ini relevan dengan tren industri saat ini dan memperkaya perspektif profesional dalam menghadapi tantangan teknologi.

B. Saran

1. **Proses Pelaksanaan MSIB di Organisasi Mitra**:
   - Perlu meningkatkan transparansi dalam pengelolaan program, termasuk penyediaan umpan balik secara terstruktur kepada peserta.
   - Evaluasi lebih lanjut terhadap kebutuhan pelatihan tambahan setelah program MSIB untuk memastikan penerapan langsung dari pembelajaran.

2. **Substansi atau Topik Cloud Computing**:
   - Mendorong lebih banyak praktikum atau studi kasus langsung yang terintegrasi dengan industri untuk mengaplikasikan teori ke dalam praktik.
   - Mengadakan seminar atau workshop rutin untuk memperbaharui pengetahuan terkini dalam *cloud computing* dan teknologi terkait.

Dengan menerapkan kesimpulan dan saran di atas, diharapkan program MSIB di Mitra dapat terus beradaptasi dan memberikan nilai tambah yang signifikan bagi pengembangan karyawan dan kemajuan organisasi dalam era digital ini.

IV. Referensi

[1] https://kampusmerdeka.kemdikbud.go.id/

[2] https://grow.google/intl/id_id/bangkit/?tab=cloud-computing

[3] https://dicoding.com/

[4]https://www.coursera.org/

[5]https://www.credly.com/

[6]https://www.cloudskillsboost.google

VI. Lampiran Sertifikat Mahasiswa Studi Independent

https://www.dicoding.com/certificates/07Z60VJWMZQR

https://www.dicoding.com/certificates/NVP7QO37VZR0

Google Cloud

Build Infrastructure with
Terraform on Google Cloud

Infrastructure Modernization

SKILL BADGE · INTERMEDIATE

Google Cloud

Develop Your Google
Cloud Network

Infrastructure Modernization

SKILL BADGE · INTERMEDIATE

https://www.dicoding.com/certificates/1OP8WLLMVXQK

https://www.dicoding.com/certificates/KEXL13MW0XG2

Google Cloud

Build and Secure Networks in Google Cloud

Security

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SKILL BADGE · INTERMEDIATE

Build and Secure Networks in Google Cloud
Mar 14, 2024

Google Cloud

Create and Manage Cloud Resources

Infrastructure Modernization

SKILL BADGE · INTRODUCTORY

Create and Manage Cloud Resources
Mar 14, 2024

Google Cloud Computing Foundations: Cloud Computing Fundamentals
Mar 7, 2024

Google Cloud Computing Foundations: Cloud Computing Fundamentals
Mar 7, 2024

https://www.cloudskillsboost.google/public_profiles/40d99d79-39c0-4690-bd1c-9850c351bc93/badges/8281296?utm_medium=social&utm_source=linkedin&utm_campaign=ql-social-share

Google Cloud Computing Foundations: Infrastructure in Google Cloud
Mar 7, 2024

https://www.cloudskillsboost.google/public_profiles/40d99d79-39c0-4690-bd1c-9850c351bc93/badges/8245393?utm_medium=social&utm_source=linkedin&utm_campaign=ql-social-share

Google Cloud

Perform Foundational Infrastructure
Tasks in Google Cloud

Infrastructure Modernization

—

SKILL BADGE · INTRODUCTORY

Perform Foundational Infrastructure Tasks in Google Cloud
Mar 13, 2024

https://www.cloudskillsboost.google/public_profiles/40d99d79-39c0-4690-bd1c-
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Preparing for Your Associate Cloud Engineer Journey
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https://www.dicoding.com/certificates/4EXGKJ681ZRL

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