LAPORAN LOGBOOK KEGIATAN MSIB
MERDEKA BELAJAR KAMPUS MERDEKA
Bangkit Academy 2023 by Google, GoTo, Traveloka
Yayasan Dicoding Indonesia

Disusun oleh :
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PROGRAM STUDI TEKNOLOGI REKAYASA PERANGKAT LUNAK
DEPARTEMEN TEKNIK ELEKTRO DAN INFORMATIKA

SEKOLAH VOKASI
UNIVERSITAS GADJAH MADA

2023

HALAMAN PENGESAHAN

Logbook kegiatan ini disusun berdasarkan hasil dari kegiatan MSIB di Yayasan Dicoding Indonesia yang telah dilaksanakan pada :

Hari, dan tanggal   : 14 Agustus 2023 – 31 Desember 2023
Lokasi   : Daring

Yogyakarta, 2 Januari 2024
Menyetujui,
Dosen Pembimbing

Firma Syahrian, S.Kom., M.Cs.
NIP. 198703222019031011

Mengetahui,

Ketua Departemen   Ketua Program Studi
Teknik Elektro dan Informatika,   Teknologi Rekayasa Perangkat Lunak

Nur Rohman Rosyid, S.T., M.T., D.Eng   **Divi Galih Prasetyo Putri, S.Kom., M.Kom., Ph.D**
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LOGBOOK KEGIATAN

Nama mahasiswa   : Rahul Rahmatullah
NIM   : 21/480280/SV/19603
Pembimbing Magang   : Luthfi Noor Syadzy Zamachsyari
Lokasi Kegiatan   : Daring

No	Tanggal	Rincian aktivitas yang dikerjakan	Lokasi Kegiatan	Durasi (jam)	Paraf Pembimbing
1	14 - 18 Agustus 2023	I took part in MSIB batch 5 onboarding, meeting friends from various campuses. The Rise 2023 event provides inspiration from 2022 alumni. Meeting with Mr. Fellexandro Ruby discusses reputation, skills and connectivity. The fourth day is off, and I focus on learning basic programming as the first step to becoming a software developer.	Daring	30	
2	21 - 25 Agustus 2023	On August 21 2023, finish the ILT session at Bangkit Academy, meet new friends on the machine learning path, and pass the exam with a score of 80. Continue studying at Dicoding. On August 22, the focus of the introduction to logic programming module. On August 23, weekly consultation session with Mr.	Daring	30	

3		Luthfi Noor Syadzy Zamachsyari via Google Meet. On August 24, study at Dicoding and take the English pre-test. On August 25, continue your studies in Dicoding with a focus on the introductory programming logic module.			
3	28 Agustus - 01 September 2023	August 2023, focus on learning basic Kotlin and Git in Dicoding. Session with mentor, Mr. Achmad Chaedar, provided a positive experience. Understanding Git and GitHub, as well as learning to create Android applications for beginners. Weekly consultation sessions with MD-8 are fun. Advanced study of Git, including branches and team collaboration. The highlight was the YouTube [Non-Mandatory] Bangkit 2023 Batch 2 Guest Speaker Session #1 meeting, inspiring with the presence of expert speakers. All this strengthens my enthusiasm for learning.	Daring	30	

4	04 - 08 September 2023	In the past few days, you learned time management on September 4, "ILT Spoken Correspondence" material for English communication on September 5, and Android application learning focus for beginners on September 6. On September 7, you attend a non-mandatory meeting on machine learning and progress on the final app project, while on September 8, learning materials cover Android foundations.	Daring	30	
5	11 - 15 September 2023	On September 11-15 2023, I learned the basics of Android development, attended the Mantadory Rise Meet, focused on Fragment and navigation material, and attended the Capstone Briefing and Weekly Consultation meetings. Learning also includes background on threads and networks, as well as material on Android Architecture Components.	Daring	30	

6	18 - 22 September 2023	In the last few days, I learned Android Architecture Components, including ViewModel and LiveData, on the programming platform. I've also started work on the initial delivery with a focus on displaying data from the Web API to the RecyclerView. Additionally, I implemented the search feature with the SearchBar and SearchView exercises, as well as starting the Displaying Details Page section.	Daring	30	
7	25 - 29 September 2023	In the last few days, I've focused on initial delivery by starting the Displaying Followers & Following section using material from the Tab Layout Practice with ViewPager2. Next, I learned testing using Espresso on September 27th. On September 28, the main material will be Local Persistent Data with File Storage, SharedPreferences, and DataStore submodules. Finally, on September 29, I studied Basic SQL, Rooms, and Repositories in the context of Local Persistent Data.	Daring	30	

8	02 - 06 Oktober 2023	On October 2-4, 2023, I focused on the Background Tasks & Scheduler section in Dicoding, learning Introduction to Background Tasks, Broadcast Receivers, and related exercises. On October 5, 2023, I started the final delivery of the GitHub user application project by developing the CRUD database section. On October 6, 2023, focus on developing dark mode and splash screen with key-value storage using data store.	Daring	30	
9	09 - 13 Oktober 2023	On October 9-13 2023, I focused my learning on various modules on the Dicoding and programming platform. Starting from Advanced User Interface with Custom View, Canvas, and Android Widget modules on October 9, to StackView Widget, WebView, and Property Animations on October 10-11. On October 12th, I learned about Localization and Adaptive Layout, followed by material on Accessibility, Permissions, and Home Screen Services on October 13th.	Daring	30	

10	16 - 20 Oktober 2023	On October 16-20, 2023, I completed the "Service" and "Media" modules on the Dicoding platform. Focus on the implementation of "MediaPlayer" and "ExoPlayer," including the theory of "Gallery and Camera Access." I continued with the completion of submitting the story application, implementing the authentication feature, displaying a list of stories from the API, and adding a story addition feature with animations on each page.	Daring	30	
11	23 - 27 Oktober 2023	On October 23-27 2023, I continued learning on the programming platform, focusing on the Geo Location and Advanced Testing modules. Material includes Google Maps API, Location Tracker, Geofencing, and Test Driven Development (TDD). I did exercises with Unit Testing, LiveData, Coroutines, Repository, and Integration Testing for Room Database and Fragment. On October 27, I completed the module with End-to-End Testing exercises, a summary of Advanced Testing, and an introduction to Advanced Databases.	Daring	30	

12	30 Oktober - 03 November 2023	From October 30 to November 3 2023, I focused on learning on the programming platform. The Advanced Database module involves Database Room Relations, Pre-Populate Database Room, Room Database Migration, and Paging in Room Database. I also explored Firebase modules, including Authentication, Realtime Database, and Cloud Messaging (FCM). On November 3, I completed the Firebase module with a summary of knowledge about Firebase.	Daring	30	
13	06 - 10 November 2023	On November 6-10, 2023, I am focusing on the final development of the intermediate class of Android applications. I started working on submissions 1 and 2 for a story app project with map, paging list, and testing features. Next, I started learning to create Android applications with Jetpack Compose, recognizing basic concepts such as Composable Function and Recomposition.	Daring	30	

14	13 - 17 November 2023	On November 13-17 2023, I continue to learn to create Android applications with Jetpack Compose. The material involves basic Compose concepts, an introduction to the Declarative UI Toolkit, basic Compose exercises, and Kotlin basics in Compose. I also studied Layout in Compose with basic theory, Modifier theory, using Scaffolds, and creating menus, categories and bottom navigation.	Daring	30	
15	20 - 24 November 2023	On November 20-24 2023, I will focus on learning to create Android applications with Jetpack Compose. The material involves basic concepts of Compose, introduction to State, handling side effects & effects, state management, and Lazy Layout. I also did exercises to create a temperature conversion application, navigation drawer, and search feature. The material involves Lazy Layout theory, case studies on making lists, as well as exercises on creating scroll to top features and sticky headers.	Daring	30	

16	27 November - 01 Desember 2023	From November 27 to December 1 2023, I focused on learning to create Android applications with Jetpack Compose. The material involves navigation using the Navigation Component, UI testing exercises, and an introduction to interoperability.	Daring	30	
17	04 - 08 Desember 2023	On December 4-8 2023, I focused on learning to create Android applications with Jetpack Compose and preparing for the Associate Android Developer exam. The material involves interoperability and the practice of creating list, detail, about pages, and search features. I also started the exam simulation with the To-Do App project.	Daring	30	
18	11 - 15 Desember 2023	On December 11-15 2023, I focused on the Associate Android Developer exam simulation, working on the To-Do App and Habit Tracker projects. I experienced rejection on the To-Do App project application, made revisions, and succeeded in getting approval. Also, I also worked on the Habit Tracker project by submitting video interviews and making	Daring	30	

		revisions after approval of the coding.			
19	18 - 22 Desember 2023	On December 18-22 2023, I focused on simulating the Associate Android Developer exam and working on the Scheduler App project. I also submitted a video interview and made revisions. After completion, I started working on the capstone project by looking for design references and creating a UI/UX design using Figma.	Daring	30	
20	25 - 29 Desember 2023	On December 25-29 2023, I prepared a presentation and final project report. I refined the presentation, practiced with the team, and did the project presentation on December 28th. After that, I worked on the final report and logbook.	Daring	30	