

Week	Task Description	Responsibilities	Deliverables
1	Project Setup and Planning	<ul style="list-style-type: none"> <li>- Define project goals and objectives</li> <li>- Set up version control (Git)</li> <li>- Create initial project structure in Android Studio</li> <li>- Outline GCP services needed for compute, storage, and database</li> </ul>	<ul style="list-style-type: none"> <li>- Project plan document</li> <li>- Git repository initialized</li> <li>- Initial cloud architecture diagram</li> </ul>
	UI/UX Design	<ul style="list-style-type: none"> <li>- Design wireframes and mockups in Figma</li> <li>- Finalize UI elements based on the app's main feature (AI outfit recommendation)</li> </ul>	<ul style="list-style-type: none"> <li>- Completed Figma designs</li> <li>- Design approval from the team</li> </ul>
2	Development Setup and GCP Configuration	<ul style="list-style-type: none"> <li>- Set up Android Studio environment</li> <li>- Integrate necessary libraries (Retrofit, TensorFlow Lite)</li> <li>- Configure GCP services for compute (App Engine, Cloud Functions, or VM), storage (Cloud Storage), and database (Firestore or Cloud SQL)</li> <li>- Assign GCP access permissions to the Cloud Computing team only</li> <li>- Use Google Cloud Pricing Calculator to estimate costs</li> </ul>	<ul style="list-style-type: none"> <li>- Development environment ready</li> <li>- Libraries integrated</li> <li>- GCP project configuration with minimum cost estimate</li> </ul>
	Core Feature Development	<ul style="list-style-type: none"> <li>- Develop XML layouts based on Figma designs</li> <li>- Create basic navigation and activity structure</li> <li>- Add app icon to make the app visually distinct</li> </ul>	<ul style="list-style-type: none"> <li>- Initial app layout and navigation structure completed</li> <li>- Custom app icon added</li> </ul>
3	Backend and API Integration	<ul style="list-style-type: none"> <li>- Develop REST API for data management using GCP (e.g., Cloud Functions or App Engine)</li> <li>- Implement Retrofit in the app for API calls</li> <li>- Create networking calls to interact with the API</li> </ul>	<ul style="list-style-type: none"> <li>- Functional API calls established</li> <li>- Data fetching implemented</li> </ul>
	ML Model Development and Integration	<ul style="list-style-type: none"> <li>- Build and train a custom TensorFlow model on Google Cloud (not using TensorFlow Hub or AutoML)</li> <li>- Use TensorFlow Lite to convert and integrate the model into the app</li> <li>- Implement the ML model on-device to recommend outfits based on user preferences</li> <li>- Ensure that the AI workflow is the app's main feature, allowing users easy access to the recommendation functionality</li> </ul>	<ul style="list-style-type: none"> <li>- Custom-trained ML model converted to TensorFlow Lite</li> <li>- On-device model for outfit recommendations</li> <li>- Basic workflow for AI feature access</li> </ul>
4	Testing, Debugging, and Documentation	<ul style="list-style-type: none"> <li>- Conduct unit testing and user testing to ensure the app's main features (including AI/ML functionality) are stable and meet project goals</li> <li>- Debug and fix identified issues</li> <li>- Create documentation, including app instructions, usage of GCP, and AI/ML workflow</li> </ul>	<ul style="list-style-type: none"> <li>- Test reports</li> <li>- Debugged app ready for deployment</li> <li>- User and technical documentation</li> </ul>
	Finalization and APK Release	<ul style="list-style-type: none"> <li>- Optimize and finalize app</li> <li>- Generate APK for release</li> <li>- Prepare a final project report</li> <li>- Present project outcomes and key insights</li> </ul>	<ul style="list-style-type: none"> <li>- Downloadable APK file</li> <li>- Final project report</li> <li>- Project presentation with outcomes</li> </ul>