

Thesis Plan (Hao Zhang)

Title	Design and Implementation of Social Event Application Based on Android
Start time	11/02/2019
Type	Design and Implementation of an App
Goal of Thesis	Over the years, more and more tourists come to Helsinki to travel, in order to let more people know about the events happening in Helsinki area, with the help of the "City of Helsinki" organization, a social events viewing application based on Android platform is born. The main goal of this thesis is to produce a public events information platform based on Android to make it easier for people to find activities happening in the moment or in the future and make people participate in activities, integrate into local life and learn about Helsinki culture.
Main Content	During the development process, back-end data is provided from the organization's open data which covers public data in the Helsinki region. The major application case used in this thesis is a completed social event application written in Kotlin and the specific location of the event will be marked on Google Maps. Besides, RecyclerView is widely used in this application to display specific event information, such as date, price, event publisher and so on. Design pattern, as an essential part of computer science, is beneficial for keeping projects architecture scalable and testable. This thesis introduces Model View Presenter, a design pattern encouraged by Google for Android development. In addition, MVP design pattern will be demonstrated along with the extracted code from the application case. In summary, this thesis implements a social event application based on MVP design pattern and the UI of application conforms to the "Material Design" specification.
Outcome	Full-featured Android Application made for Innovation Project
Time Schedule	<p>1) 11/02/2019 —25/02/2019 Situation analysis of social event applications in Helsinki and finalized introduction part</p> <p>2) 25/02/2019 —03/03/2019 Find information and complete the part on the theoretical background</p> <p>3) 04/03/2019 —09/03/2019 Start writing the Implementation part and complete the application outline</p> <p>4) 11/03/2019 —16/03/2019 Optimize some of the code, complete the introduction of some technology stacks, finalize the implementation part.</p> <p>5) 18/03/2019 —23/03/2019 Summarize the results of the paper and draw conclusions</p> <p>6) 25/03/2019 —30/03/2019 Overall browsing of the entire paper for overall optimization</p> <p>7) 01/04/2019 — Trying to finalize the paper with the supervisor</p>

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