

# Android App Proposal – MakerLink

The project strives to the realization of a DIY app: MakerLink. The “Maker” part of the app name refers to the features which allow users and creators to post, view, watch, and recreate DIY tasks ranging all domains: From Electronics to Mechanics to simple Interior Design. Since the content of the app is user-generated, it targets all audiences—from students trying to fix their bike tires, to grandmothers trying to learn how to cook a new dish. But “Maker” is only half of our app’s name. Indeed, the “Link” part of the app alludes to the creation and interaction between users through features such as communities, comment sections, direct messages and location-based matching. More specifically, the app contains the following features:

## ESSENTIAL

- **Sign Up / Log In page**
- **Home Page:** Here the user can access all different features of the app: Content of the creators (videos, posts, documents, etc...), the playlists he created, the communities he participates in, the rankings, and the tool lending page.
- **Discovery Page:** The user can search specific DIY tasks and/or apply filters to reach the desired topic.
- **Content Hub:** This is where the content of creators can be shared. These will usually be in the form of videos, posts, manuals, etc... All relevant contents of that specific domain will be clumped together and can be viewed by the user.
- **Content Thread:** On this page the user will find the DIY task posted by a specific creator. The user may comment on this thread and view the comments of others.

## REQUIRED

- **Communities:** Here people can communicate with one another: Share ideas, opinions, solutions, give feedback, and more.
- **Playlists:** Users can create public or private playlists which contain different DIY tasks grouped together. If public, other people can view and save these playlists. If private, the user can keep this playlist in another page, which guarantees swift access.

- **Location-Based Tool Lending:** Users will be able to find other users on a map who possess certain tools that they need for a DIY task. The app will facilitate the process of communication and discovery between the provider and the consumer.

## OPTIONAL

- **Ranking Section:** This section is the gamification part of the app. On our app, users are given points and badges for app interactions such as posting or viewing. On the ranking page, users' points and badges are displayed in a leaderboard setting.
- **Content Moderation** features such as:
  - **Reporting:** Allowing users to point out inappropriate content.
  - **AI algorithms:** Integrating LLMs such that inappropriate content is more easily detected (ex: checking specific inappropriate words through files which are about to be posted).
- **2 Factor Authentication measurements:** To ensure trustworthy and reliable tool lending and interactions.
- **Categories Based on Skill Level:** Tailoring videos and searches based on skill level of the user

## VIZUALIZATION



