

Vision

LifeSplit is a time management application for daily activities inspired by the PC Speedrunning software LiveSplit. LifeSplit's primary goal is to give its users a better idea of how long certain daily activities take them, so they can better plan out their day. LifeSplit achieves this goal by having its users time how long a common task takes. The app calculates the average time a task takes, so the user can better understand how long their daily routine takes. LifeSplit includes preset tasks and allows for unlimited custom tasks defined by the user. Users can compare how long a task takes them to the average time of the app's user base through global average task times.

Features

- A timing system for everyday tasks
- 5 preset tasks
- Unlimited customizable tasks
- GPS-enabled tasks (running, commute via lat/lng)
- A task customization screen
- A MySQL database storing all local data
- A Firebase database storing global average times for preset tasks

Dependencies

LifeSplit requires an internet connection to post scores to a Firebase database containing average preset task times. An internet connection will also be required for any GPS tasks.

Scope

Other technologies could be used to help validate a potentially fake time (like checking an accelerometer for running a mile), but this is outside the scope of the app. Features to be implemented in this class include 5 preset daily tasks and support to add custom tasks. The custom tasks will have options to add splits (checkpoints during a task) to give a better idea how long each component of a task takes. An example of this is getting ready in the morning. This task would include splits for making/having breakfast, getting dressed, and brushing teeth. Additionally, GPS functionality will be implemented during this class, allowing the app to time exercise or commute times. As discussed above, MySQL and Firebase integration are also within scope.

Data Management

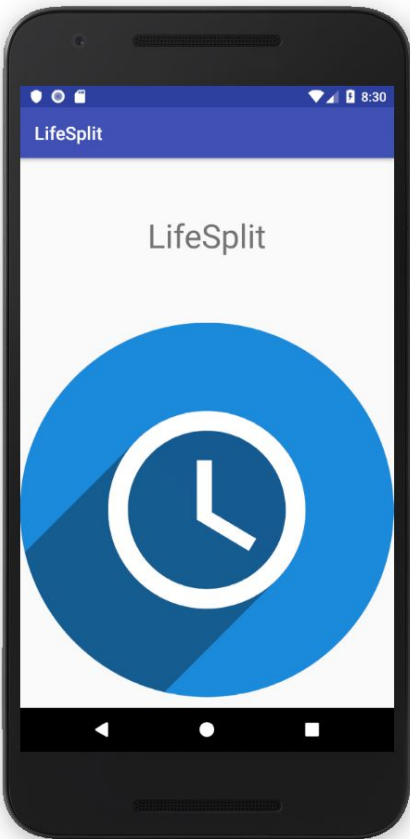
User data is stored in a local MySQL database. This includes all task definitions and descriptions, as well as records of the users' previous splits. Global average split data is collected and stored in a Firebase realtime database.

Competitive Analysis

There are a great deal of time management applications on the play store, but they primarily focus on tracking time in the workplace. One similar application is called *aTimeLogger*. The app tracks preset and custom activities and can report about time data. The app is very successful (500k+ downloads) and runs off an adless donation-only platform. TimeLive provides a unique service both by focusing more on average time to complete daily tasks and has a community-based average time for each preset task.

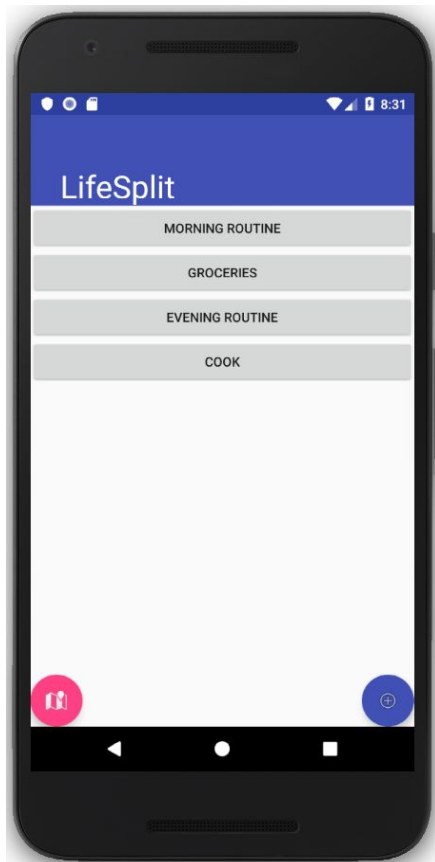
Home Screen

- A simple button connected to tasks home screen



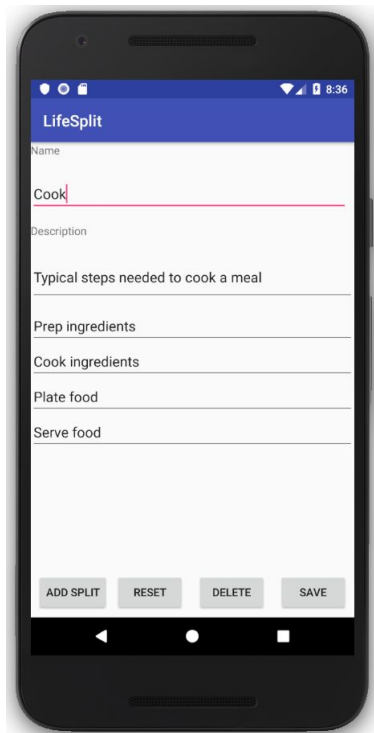
Tasks Screen

- Contains 5 preset daily tasks
- Custom task creation done with create a new task button
- Clicking on a task brings up timing screen
- Back button brings user back to home screen
- Long click a task to edit or delete



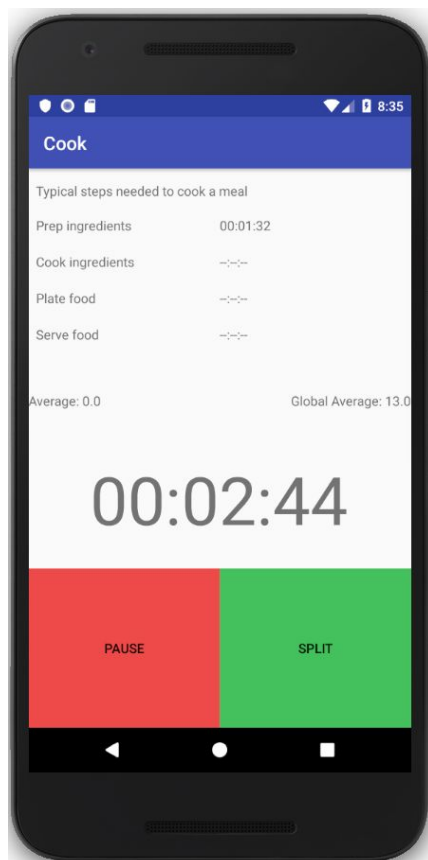
Task Creation Screen

- Create new task with specified info
- Add any number of splits
- Back button sends user back to tasks screen
- Includes GPS options for travelling tasks
 - Automatic splits based on preset home and work locations
 - App suggest optimal route based on previous commute times



Timing Screen

- Includes brief description and instructions on timing
- Multiple splits for subcategories
- Time data shown for comparison
- Back button sends user back to tasks screen
- Includes GPS options for travelling tasks
 - Automatic splits based on preset home and work locations
 - App suggest optimal route based on previous commute times



Appendix

Clock Icon: <https://pixabay.com/vectors/time-time-of-clock-time-indicating-1606153/>