LifeSplit

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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 (like getting ready in the morning or doing the dishes). The app can then calculate the average time a task takes, so the user can better understand how long their daily routine takes. LifeSplit will have many preset tasks such as showering, making dinner, and getting to work/school; these preset task times will be stored in an SQL database so that average time data can be shared across users. Users then can compare how long a task takes them compared to the app's entire userbase.

Features

- A timing system for everyday tasks
- Up to 15 preset tasks
- GPS-enabled tasks (running, commute via lat/lng)
- A task customization screen
- An SQL database with global average times for preset tasks

Dependencies

Lifesplit will require an internet connection to post scores to an SQL database containing preset task times, and a data storage system for keeping track of previous times. An internet connection will also be required for any GPS tasks. A possible additional feature for this app is adding media button support for the buttons on earbuds; instead of toggling music, it would signal when a task is done.

Scope

Other technologies could be used to help validate a potentially fake time (like checking an accelerometer for running a mile), but I believe this is outside the scope of the app. Features to be implemented in this class include 15 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. Future releases would include more tasks, and a system for categorizing tasks as the number of tasks increases.

Data Management

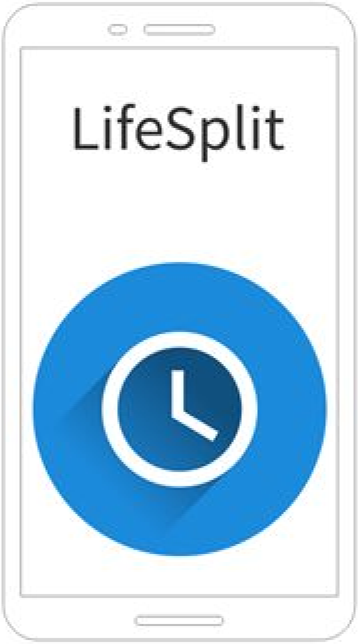
User data will be stored in an SQL database, so that it can be accessed across multiple databases. This includes all task definitions and descriptions, as well as records of all the users' previous splits. The user's current task definitions will also be stored on the local device, so that the app can function without an internet connection. The user's best splits and 5 most recent splits will also be stored locally for the same reason.

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.

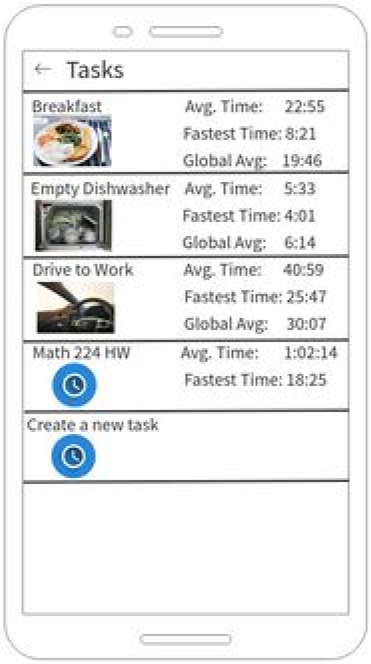
Home Screen

- A simple button connected to tasks home screen
- Future designs might include an options or settings button



Tasks Screen

- Contains up to 15 preset daily tasks and average global data
- 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
- Swipe a task right to edit, left to delete



← Tasks

Breakfast
Avg. Time: 22:55
Fastest Time: 8:21
Global Avg: 19:46

Empty Dishwasher
Avg. Time: 5:33
Fastest Time: 4:01
Global Avg: 6:14

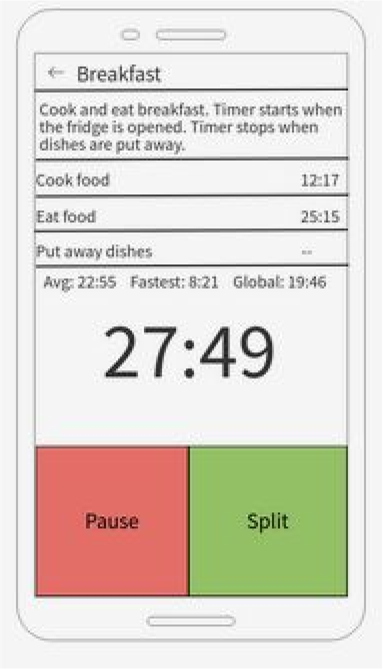
Drive to Work
Avg. Time: 40:59
Fastest Time: 25:47
Global Avg: 30:07

Math 224 HW
Avg. Time: 1:02:14
Fastest Time: 18:25

Create a new task

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



Cook and eat breakfast. Timer starts when the fridge is opened. Timer stops when dishes are put away.

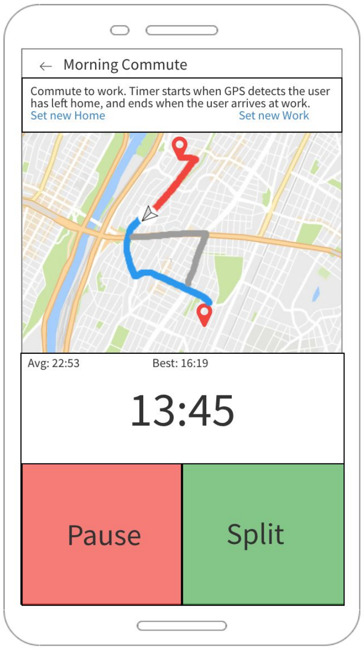
Cook food 12:17

Eat food 25:15

Put away dishes --

Avg: 22:55 Fastest: 8:21 Global: 19:46

27:49



Commute to work. Timer starts when GPS detects the user has left home, and ends when the user arrives at work.

Avg: 22:53 Best: 16:19

13:45

Appendix

Wireframe editor: https://mockflow.com/
Clock Icon: https://pixabay.com/vectors/time-time-of-clock-time-indicating-1606153/
Breakfast Icon: https://pixabay.com/photos/breakfast-food-dish-1246686/
Dishes Icon: https://torange.biz/utensils-dishwasher-975
Car Icon: https://pixabay.com/photos/car-driving-man-wheel-hand-watch-1509852/