Kairos – Your Personal Time Manager

Web Applications Development (15-637)
Sprint 2 Presentation

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Motivation

Students don’t keep track of the time they spend on a particular activity.

Sheets stuck to their board or their wall are often very boring to look at.

Writing a timetable on paper is time taking and hard to keep track of their progress over time.

Our solution: Kairos!

Objective (Final Goal)

- Help students keep track of the time of an activity they are doing, as they are doing it.
- Provide a cutting edge dashboard with visualizations that help students see how optimally they are spending time. Features include:
  - Most or least time spent on a subject / research paper / miscellaneous activity per day, week, month.
  - Set due dates for a task, and examine progress and productivity w.r.t expected time of completion against the actual deadline.
- Provide a separate tab to help students to progress tasks within a particular course e.g. Homework 1 for Web Application Development.
- Visualizations' provided with d3.JS.

What we achieved in Sprint 1

- Formation of the backbone of the entire project.
- Strong validation on the forms. (Project heavily relies on data from the user).
- Without a strong backbone, the project would fail.
- Pages for each task, subtask, registration etc.
- No visualizations.

Sprint 2 Activity

- Start, Stop, Mark as complete
  - User has the ability to pause and start the task multiple times.
  - Used AJAX to reduce the load on the server
- User can Edit task that would allow him to go back and change certain details about the work he's keeping track of.
- D3 visualizations for time remaining and completion status.

Layout of Activities Per Person

Module/Functionality	**Team Member Working**	**Estimated Time to Complete**
Backend - Start, Pause, Stop	Anush	4 hours
D3 Visualization	Anush, Advait, Tony	10 hours
Data Updation - Edit Task	Advait	6 hours
Fronted- start, Pause, Stop	Tony	3 hours
Ajax - start, Pause, Stop	Tony	7 hours

Problems Encountered

Making decisions on which features were needed to provide visualizations (For instance, user exceeding time given).

Calculations of how we are going to calculate time spent on a task given that user has complete control over the app.

Subtracting time aware and unaware fields (conversion of times) -> very less support on stack overflow.

Combining DateFields and TimeFields and using that for our calculation (Getting values that are human understandable).

Upcoming Sprint Goals

Activities Analytics

- User can see a bar chart of activities on his page, the amount of time he spent on an activity per week, per month.
- Other analytical data includes the amount of tasks he completes within a given amount of time.

User notifications

- Consider factors and provide them notifications and charts showing them that they have exceeded time allotted, or deadline is close by etc.

User testing

- We thoroughly test the usability and functionality of the final product before deployment.

Deployment on production server.