System Design

Team Name:

Slack Overflow

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CRC Cards

Note: DAO stands for Data Access Object

Class name:	Class name:
Event	User
Parent class: N/A	Parent class: N/A
Subclasses: Course, Due Date	Subclasses: N/A
Responsibilities:	Responsibilities:
Act as a parent to CalendarEvent	Allows someone to save, edit, and
and DueDate	retrieve their data
 Store date, time, place, and name of event 	Collaborators:
or orong	WebApp
Collaborators:	Calendar
• DAO	Timetable
 Timetable 	• DAO
 Calendar 	 HomePage
	Notes
Class name:	Class name:
WebApp	HomePage
Parent class: N/A	Parent class: N/A
Subclasses: Notes	Subclasses: N/A
Responsibilities:	Responsibilities:
 Handle account creation, login, 	 Display user information
and account info modifications	 Allow user to navigate to all
	features
Collaborators:	
• DAO	Collaborators:
• User	UserDAO

Class name: Class name: Calendar DAO Parent class: N/A Parent class: N/A Subclasses: N/A Subclasses: N/A Responsibilities: Responsibilities: Able to access database to retrieve Display events and due dates and modify data Notify users of events/due dates happening soon Collaborators: Display courses and timings Web App User Collaborators: Timetable Timetable Calendar Event DueDate User HomePage DAO RateMyProf Course Class name: Class name: CalendarEvent **Timetable** Parent class: N/A Parent class: N/A Subclasses: N/A Subclasses: Course, Due Date Responsibilities: Responsibilities: Allow sharing • Takes on responsibilities of parent Add, edit, and remove courses Allows user to specify time frame Suggest timetables of event Collaborators: Collaborators: Course DAO User Timetable DAO Calendar Notes

Class name: Class name: **Rate My Prof** Course Parent class: N/A Parent class: Event Subclasses: N/A Subclasses: Rate My Prof, Notes Responsibilities: Responsibilities: • Show the rating of profs from the • Stores time, place, and name of Rate My Prof website class/course Links to notes Collaborators: Course Collaborators: DAO Event Notes DAO Rate My Prof Class name: Class name: **DueDate** Notes Parent class: Event Parent class: Course Subclasses: N/A Subclasses: N/A Responsibilities: Responsibilities: • Store time, place, and name of due Allow sharing of notes Allow collaboration on notes Remind user of due date Allow notes to be added and edited

Collaborators:

- User
- CalendarEvent
- DAO

Collaborators:

- User
- Course
- Timetable

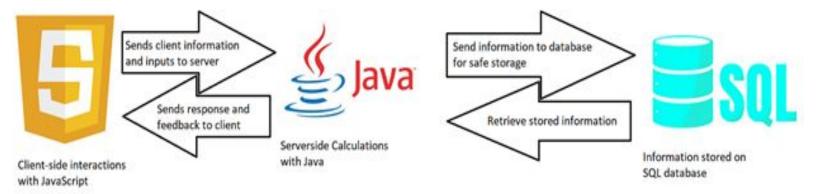
Software Architecture Diagram

We plan to use Java Applet and will move on to using HTML, CSS, and Javascript for the user's view. We assume the user will access our app through a website such as google chrome, mozilla firefox, or microsoft edge.

All calculations for tasks such as suggesting timetables will be done on the server using Java.

For the database/model we are using JSONs to save and retrieve data. We plan to set up a server to allow us to use SQL when necessary (e.g. user registration and login).

Single level diagram:



https://www.progress.com/documentation/sitefinity-cms/reference-architecture-diagrams