

Project Specification

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--Team 188: Drivers on Mt. QM

A deadline management tool called **Due-Link**. It helps you manage your dues and events clearly and easily.

Pages and actions

Element0: Main stream

List deadline blocks. When user click each block, it will expand and show detail tasks.

In Navbar, users click these link to:

1. **Deadlines(default global stream)**: This page shows deadline blocks and some of its detail tasks.
2. **Schedule (calendar)**: The calendar page that shows deadlines in date-time forms.
3. **FriendList**: The page shows what your friends doing and where they up to.

Element1: Calendar based on date & time

Actions:

Add event

Add a deadline to the calendar. User need to fill in **deadline name** and **course** it belongs to. User may also set **due time**, **reminder** and **note**.

Delete event

Delete deadlines.

More

Jump to deadlines individual page, which show detail tasks.

Element2: Detail Tasks

When user click a deadline, will go to a detail page. Inside this page, the app will list tasks in **To-Do** section and **Done** section.

Actions:

Add task (+)

User fill in the task title and confirm.

Accomplish task(✓)

Click ✓, and the task will go to **Done** section.

Delete task(x)

Delete the task.

Element3: Collaboration

Categorized by topics, can be course, assignment.

Recommend people and on-going deadlines in your school.

Basic functionalities:

Register:

New user register with their **email**, **password** and **school**

Login:

User log in with **email** and **password**.

Editing user profile:

After user login, we prompt user to improve their profile.

Nickname, School, icon, self introduction. And setup email notification level.

Select school/organization:

The app will show school names. And user select the school they belong to.

If user can't find their school, user may submit one.

Search:

User search people, school and projects. The app will provide auto prompt.

Technology:

Email notification: Amazon Simple Notification Service (SNS)

Calendar: FullCalendar.io and some open source implementation of FullCalendar.io

Dynamic web pages: JQuery

Testing: python's unittest framework and Django unittest

Database: MySQL, implement database transaction

Other development tools: Docker, Jenkins

Phases:

BackLog1 Coordinator: Yilong Chang	Authentication Manage deadlines Manage FriendList Basic calendar	Unit test
BackLog2 Coordinator: Guangyao Xie	Refine calendar Manage tasks Search Send messages	Deployment on AWS Test automation(Jenkins server or Travis Ci)
BackLog3 Coordinator: Pimeng Fu	Recommendation Search auto-prompt	Deployment automation Transaction Docker