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## 1 Integrations

### 1.1 Github

Issues can be tied to github issues. Application will support:

1. Creating a new issue
2. importing an existing issue
3. closing an issue

### 1.2 Google Calendar

Issues can also be tied to Google Calendar. Application will support:

1. Dsisplay tasks on google calendar

## 2 Components

### 2.1 Project

A project is a wrapper for a set of tasks. A project contains:

1. A set of stages for the project
2. The issues in the project, tied to a given stage

#### 2.1.1 View-specific functionality

1. Kanban View

Each project will have its own kanban board. These boards do not support multiple views.

2. Todo View

Each project will have its own Todo list. Multiple projects can be viewed at once

3. Calendar View

Each project will have its own Calendar. Multiple projects can be viewed at once

### 2.2 Stage

Stages are more nebulous than projects. They are not necessarily apparent in every view, but will be tied to every project nonetheless.

Stages contain:

1. A Name
2. A list of issues in the stage

Stages can be anything from {todo, doing, done} to {math class, physics class, english class} and anywhere in between. They are meant to be flexible enough to fit different task management strategies.

### **2.2.1 Templates**

The application will provide templates for stages. v1.0 will include:

1. Kanban Template
  - Todo
  - Doing
  - Done
2. School Template
  - Class 1
  - Class 2
  - Class 3
3. Office Template
  - Current Tasks
  - Correspondence
  - Long term projects
  - On Hold/Awaiting Reply

### **2.2.2 Custom Stages**

Users can also create their own stages, and will be prompted for the name for each stage

### **2.2.3 View-specific functionality**

1. Kanban View

In kanban view, stages represent the lists, or columns, of the board.

The traditional kanban view uses different levels of completion for each stage, but stages can be adjusted to any categorization.
2. Todo View

The priority level of each stage will dictate which items end up at the top of the list. Stages will be otherwise invisible in todo list mode.

### 3. Calendar View

Stages will be visible in single-project calendar view only.

If one project is being viewed, different stages will have different colors. If multiple calendars are being viewed, the calendars will each be monochromatic, and stages will be essentially invisible.

## 2.3 Issue

Issues are the smallest component. Issues contain:

1. Title for issue
2. Stage of the issue (from available stages in the project)
3. Description
4. Due Date
5. Priority level (secondary priority to stage's priority)

### 2.3.1 View-specific functionality

#### 1. Kanban View

In kanban view, issues are the individual cards.

##### (a) Stage

Stage can be set manually or by dragging issue to the appropriate list.

##### (b) Priority

Priority within the current stage can be set manually or by dragging issue up the list.

#### 2. Todo View

##### (a) Priority

Priority can be set manually or by dragging issue up the list.

#### 3. Calendar View

Issues will be placed on their due date in the calendar

## **3 Views**

### **3.1 Calendar**

See issues organized by due date on a calendar.

- Calendar view can support any number of projects' issues at a time
- If one project is being viewed, color different stages differently
- If  $>1$  project is being viewed, color different calendars differently
- Items without a due date will not be displayed.

#### **3.1.1 Invisible items**

1. Priority
2. description
3. stage (if in multiple-project view)

### **3.2 Kanban**

See issues categorized by stage in a kanban board

- Kanban boards are only able to view one project at a time

#### **3.2.1 Invisible items**

1. Description

### **3.3 Todo**

See issues organized by priority on a list

- Todo view can support any number of projects' issues at a time
- issues without priority set will be placed at bottom

#### **3.3.1 Invisible items**

1. Stage