

# Devoir

## Software Requirements Document

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# Application Overview

## Purpose

### *Problem*

As students, it is difficult to keep track of the various assignments that must be completed each week. Most of the homework planning apps on the market today require you to enter each assignment individually. This is very tedious and time consuming. On the other hand there are many calendar apps that allow you import events from an iCalendar feed. This eliminates the need to manually enter assignments, but your assignment is now an event. An event is functionally different than an assignment and lack many of the great features a task app would provide.

### *Solution*

Devoir fills the void between these two options. A user imports an iCalendar feed and the events are then converted into tasks. This combines the benefits of the two options listed above. In Devoir tasks will then be displayed with a clear and simple interface. Users will be able to easily see when assignments are due and which ones are past due. There will also be functionality for marking assignments as completed.

## Objective

Devoir attempts to improve the homework tracking experience by providing students a simple and easy to use application that allows them to track their various assignments. The application will also allow students to quickly enter their assignments. This will be a core feature of the app.

## Audience

The primary demographic is college students. Both learning suite and Canvas (a system used by many universities) provide students with iCalendar feeds for each class.

# Organizational Requirements

## Milestones

iCalendar research

UI mockups for all platforms

Database design

Server endpoints

Build individual platform databases

Database access classes

Build different views on each platform

Server built

Get website up and running

Get iOS app working

Get android app working

Implement features of version 2

## Vision

### *Semester*

The first iteration will be to get a minimal viable product up and running. On completing that we will start to implement version 1.1. We anticipated being able to implement all features listed under these two versions.

### *Future*

Implement the requirements listed under version 2. This will add customization features to the homework tracking experience and overall improve the users experience.

Make the app integratable with larger systems (like Canvas' business software) to better serve users in both universities and businesses.

# Product Requirements

## User Requirements

### *Offline Usability*

Users will be able to pull their data from local storage when there is no internet connection.

### *Customizable*

Users will be able to customize assignments and course calendars. Adding, deleting, and hiding various tasks and course calendars.

### *Current*

Users will be able to see changes in iCalendar feeds and assignments or courses nearly instantly on all platforms.

### *Secure*

Users will be provided with a secure login using google OAuth.

## Design / User Experience

The app will provide users with a clean and simple interface to view assignments.

The app will have a consistent design and feel across all platforms while maintaining the experience native to each platform.

# Functional Requirements

## Features

### *MVP (version 1.0)*

- Import (from iCal feed) or create custom course
  - Name, color
- Edit/Delete courses
- Create assignments from iCal event
  - Name, due date, description, course
- Edit/delete existing assignments
- Mark assignments as complete
- Task List view

### *Version 1.1*

- Import course from iCalendar feed and give them a:
  - Name (custom or default), color, visible categories
- Create a class without an iCalendar feed
- User creates a custom assignment with:
  - Name, due date, course, description
- Sort assignments by class or date
- Flag task if past due
- Mark assignment as complete
- Completed assignments move to a different section
- Overall good UX
- Sync across platforms
- Task list view
- OAuth with google

### *Version 2*

- Calendar view
- Add priority level to assignment (low, medium, high)
- Sort based on priority level
- Add a note to assignment
- Hide tasks/ mark insignificant
- Set reminder to assignment with push notification
- Mark assignments with different states (todo, in progress, completed, etc.)
- OAuth with facebook or create own authentication method

## Platforms

iOS, Android, Web