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senior Project proposal

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# Overview

## Project Background and Description

The proposed project is to create a job coach app for individuals with disabilities and individuals who are working with rehabilitation services to gain independence in the workplace. These individuals frequently begin their time at a new workplace with a job coach who trains them on the specific tasks they should be completing while there. However, the job coach generally only works with the new employee for a few weeks; the app I plan to create would be an assistive technology tool that would be a support for an individual once the job coach is no longer working side by side with them. The supports for the employee include a daily schedule with built in break timers to assist with time management, task lists that expand so that the user can select an individual task and be shown a series of smaller steps involved in completing that task, and at any time, from any of the screens after login, the user can press the button “What should I be doing now?” and the app will populate an accurate suggestion based on the employee’s schedule and task list. s

## Scope of Learning

I have never made an app before and am brand new to learning Objective-C, so there will certainly be a lot for me to learn from this project. I am currently in classes that will help to support my learning but there will be plenty of exploration to do on my own. There are a handful of features that I have considered adding to the app but have decided for the time being to keep my features limited to those listed below as I am still a beginner in many of the skills needed to produce this project. I hope to also gain confidence and proficiency with object oriented design as well as writing tests as I program. I’m excited to carry out the software engineering processes from beginning to end, there is no better way for me to learn than to get my hands dirty and put all the practices I’ve been learning about to work.

## Proposed Features

Created in Objective-C, features of the app include:

|  |  |  |
| --- | --- | --- |
| Feature | Extra Info | Points Assigned |
| Login to the employee view or the job coach/employer view | Only the job coach/employer view will require a password. This keeps use of the app simple for the main user (the employee) and prevents the employee from editing their daily schedule, removing non-preferred tasks from task list, etc. | 10 pts |
| Ability to edit employee schedule | Access in job coach/employer view | 15 pts |
| Ability to edit employee task list | Access in job coach/employer view | 15 pts |
| Interactive daily schedule | Access in employee view | 10 pts |
| Task list which expands to break down individual task into smaller steps, paired with visuals | Access in employee view  Ideally, visuals would be pictures of employee completing these tasks in the workplace | 15 pts |
| Task completion/”Done” selector, which greys out the completed tasks and may require a supervisor or coworker’s authentication before the task shows up as completed | Access in employee view | 10 pts |
| Break timers | Access in employee view  Based on the scheduled breaks found in the employee’s daily schedule, there should be an alert/reminder at the scheduled break time and a visual timer should begin for the allotted break time. | 10 pts |
| “What should I be doing now?” button on the bottom of every screen (other than login) | Access in employee view | 15 pts |

## Grading Scale

Given a sum of the assigned points for accomplished features listed above, I will use the following grading scale:

A (>= 90) B (>=80) C (>=70) D (>= 60) F (<60)

## Potential Future Deliverables

Michigan Rehabilitation Services, Lakestate Industries (and other vocational training centers), Community Mental Health programs for daily living / work skills, and similar companies

– This app is designed to be used by job coaches and life skills technicians as a tool to help set up the employee’s schedule and tasks, the tool is then used mainly by the employee to keep on track at work.