# **\*Everyone Stake A Claim On A Deliverable\***

IF NOT IT WILL BE ASSIGNED

# **CSC154 Software Development Project Overview Template**

Project Name: BublCal

Team: 10

Project Manager: Phoebe Andrews

Mentor: Jim Mulholland

Team Members:

Cole Morgan, Charles Moore, Johnny Johnson, Patrick Dimichele, Patrick Fuller

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## Project Objective (*Elevator Pitch*) **PBF**

So you’ve got your next few days planned out. This event then that event. But something comes up and you need to squeeze it into a busy part of your schedule. What should get moved around to make room? Some things can be condensed to shorter windows; some can be delayed and taken care of tomorrow. With BublCal just make a new event where you want, and the other events will automatically adjust to make room. Planned on taking a full lunch break to walk to your favorite spot? That could squeeze down to getting Starbucks across the street. Planned on doing some spring-cleaning chores? That can be pushed back to tomorrow. Go ahead and give yourself extra time to do tasks with less stress, but if you need to squeeze something in last minute, BubbleCal will help you visualize your flexibility and automatically adjust the rest of your day.

## Project Description (*More technical description*) Cole Morgan

BubbleCal is a mix between your daily planner and your calendar, using a virtual interface. You can plot your own events that you are then able to interact with by pushing them back or forward, either by a few minutes, a few hours or a few days. Your events can be dependent on each other, meaning if you push back/forward ‘Washing Laundry’ then the related task ‘Folding Laundry’ would also be moved back/forward accordingly. Events can also be shortened if need be, treating them like a bubble they can be compressed to a certain extent before they pop, or can’t be shortened anymore. Pushing two independent events into each other would shorten both of their times evenly, until they reach their ‘popping’ point, at which they stop. The objective of BubbleCal is to create a flexible Calendar app that helps you plan and manage your activities in way which they would interact as in real life.

Events would require input validation to make sure that the date/time entered is in the correct format and has not already passed. We could also set a limit to how far they can be planned in advance to reduce redundancy. Same would have to be done for our ‘popping’ dates, where the user sets a date AND TIME at which the event can’t be moved back any more. The user also has to input the minimum allotted time that an event can be ‘squished’ to, that would have to be no longer than the original event time and no shorter than 5 minutes. 5 minutes will be the absolute minimum for any event created, meaning that any events created/squished cannot be shorter than 5 minutes.

Events can also be scheduled with no start time, but with a mandatory end time. These are small events that can be done at any point throughout the day but must be done by that day/time. If multiple events are pushed back to the same end time then they would be totaled together and handled as one large time chunk at the end of of the allowed time. For these events only, there are alerts when the user has free time to complete these events

Alerts would be sent out as you reach the latest time to start each event.

Alerts are sent when you miss an event and you are given an option to push back if able.

1. Project Scope *(distill use cases to what is in and WHAT IS NOT IN IT)*

The project is aimed at balancing a user’s personal calendar. By using algorithms and user input, BublCal will automatically shorten, rearrange, and move appointments inside your personal calendar.

**Scope Statement**

The project will start once approval is given and working systems are agreed upon. First, the team will be asked to figure out immediate deliverables and produce minimal required project management documentation: narrowing scope, estimates, list of risks, and milestones. Once the team and project sponsor agree on time-tables, development will begin.

**BublCal version 1.0** will deliver a calendar application that creates a user’s personal calendar that will:

* Budget time of tasks.
* Highlighting tasks that cannot be changed or “put off”.
* Allow for “Squeeze” of new tasks where the ruleset will allow.
* Changing rule sets for algorithms depending on assigned level of tasks.
* Automatically readjust tasks.
* “Pop” tasks off of “To-Do List”.
* User identify tasks based on personal, professional, leisure
* Scheduling and tying tasks together that lead into each other, waterfall style.
* Day at a glance feature, with three (3) items of the most important shown.
* Alert system for current task to complete, upcoming tasks, “Free Time”, missed deadline, “Anytime Events”
* Reward point system for completing task before date assigned.
* Customizable themes, alerts, vibration, colors, task bubbles.
* Allow other users to push tasks to your BublCal
* Determine the latest start time for tasks as outlined by user including due date, time allotted, and dependencies.
* Add “Anytime” events which float through the BublCal daily schedule to be scheduled in first available time slot

Only bugs found during version 1.0 that affect immediate useability of functions stated above will be addressed. Bugs that DO NOT impact performance and stated objectives of BubbleCal will not be addressed in version 1.0.

Other user stories that come from stakeholders will not be permitted in Version 1.0 unless deemed crucial to functionality.

**Assumptions:**

- One operating system (Windows 10) to develop for first

- Ports to other operating systems will occur in later versions

- This software team will develop software

- Database will run locally

**Constraints:**

- Windows 10 for initial release

- Phoebe has a severely bruised dominant hand for 6-18 weeks, expect time-table to adjust accordingly

-Version 1.0 to be completed by December 20, 2021

**Project Exclusions:**

- Time zone shifts

- Windows 11 new features and supports

- UI/UX changes related to Windows 11

1. Use Case and User Stories **PA**
   1. As an adult, I want to be able to keep up with the numerous things I need to do in an organized, flexible fashion.
   2. As a busy person, I would like to be able to view ‘My day at a glance’ which gives me names and times of my events for that day.
   3. As a person with a lot to get done, I want to keep track of which activities still have buffer time that could be used for an additional activity
   4. As a stressed person, I want to set reminders; like notifications for upcoming sleep or available slots for destressing, upcoming deadlines...etc
   5. As someone with a flexible schedule, I want linked or dependent tasks to move with each other and other tasks to automatically adjust to that change and I want to be notified of potential conflicts
   6. As someone with a flexible schedule I want customizable tasks/events so I can change my schedule on the fly according to their specific rules. Including category, keyword, priority, flexibility, deadline...etc
   7. As someone with ADD, I want to feel accomplished and organized, I want the app to recognize accomplished tasks, especially if they are finished ahead of schedule and congratulate me
   8. As a colorblind person, I want the app to be highly customizable, so I can set sound, movement, color, or vibration for my app interactions
   9. As someone who relies on scheduling, I want to interact with other people with my calendar, I want people to be able to push tasks to my calendar with my approval
   10. As a busy person, I want to be able to know when the latest possible starting time is for several items if they all have the same deadline, and I want to be notified if I miss a deadline and be able to reschedule that task
   11. I want to be able to add ‘Anytime’ events to my day, with notifications during available or squeezable times, with a default to “ASAP”

## Team Collaboration and Documentation Tools (*eg. GitHub and what is it for*) **Johnny**

**Microsoft Teams:**

Microsoft Teams is a collaboration app that allows you and your team to stay organized and up to date along with many other things. You’re able to find and create different channels, send messages both publicly and privately, hold calls as well as group calls, share files and much more. As team 10 we will be using it for just that. Microsoft Teams will be where we handle all our communication as well as meetings, share and discuss our files and work, and collaborate to see through to our project's completion.

**GitHub:**

GitHub is a web-based version-control and collaboration-based platform for the usage of software developers. It can store and capture the code used for a project as well as continue to keep track of all history pertaining to it. This allows developers to continuously work on and maintain a project at the same time without having to worry about interruptions or stumbling over someone else’s work. GitHub will be used as the program where our project will be developed and worked on.

Also mention:

Gantt Project (software to create and manage project plan using WBS)

Practera (workflow to have work reviewed by mentor before final submission)

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## Project Management Methodologies (*Given to us Scrum Agile*) Patrick DiMichele

We are using the Agile technique: Scrum. We will have two-week sprints between milestones, and we will submit project deliverables to four total milestones, with a final goal of combining all milestone deliverables into one complete project. Each milestone has a dedicated documentation folder that contains shared files for the team to work on during that Milestone's sprint. The team has developed a schedule based on daily Scrum meetings, but instead of having it daily, we have the meetings twice a week on Monday and Thursday at 4:00 pm.

https://github.com/cfmoore/CSC154\_Team10