

Segfaulters - Software Requirements Specification Document

Isha Devgan, Michael Kopczynski, Stuti Shah, Anushka Trivedi

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1 Introduction

This Software Requirements Specification document is intended for the development team, project managers, and software engineers (end users) involved in the PomBot project. It will serve as a guide to ensure alignment across all phases of development. For developers, it provides detailed requirements and constraints to guide design of feature implementation. Project managers and product owners will use it to plan project timelines, tasks, and budget.

In this software requirement specification, we will discuss the scope and value of our product, highlighting the productivity benefits of using PomBot. We also dive into the broad intended audience and intended use of the PomBot.

2 Product Scope

The PomBot is a Pomodoro timer extension tool that addresses the universal problem of staying focused when working. Utilizing the Pomodoro technique within a user-friendly Chrome extension, our product is an accessible and applicable tool for anyone looking to improve their productivity. This project aims to reduce mental fatigue and prevent burnout, allowing users (like software engineers) to work with sustained focus and improve task completion. With these goals in mind, this project will ultimately change how software engineering teams manage their time, and help more teams meet their targets. It will

3 Product Value

In a field as demanding as software engineering, task productivity is incredibly important. Software engineers are expected to constantly produce good work in rapid development cycles. However, with both the demand and the amount of work, burnout is extremely common among those in the software engineering field. The PomBot aims to aide software engineers in effective task management that forces mental breaks and breaks tasks into manageable chunks. The tool

encourages accountability and offers value to organizations focused on employee well-being and productivity.

4 Intended Audience

Our intended audience is primarily software engineers, but is open-source and can be used by any and everybody who works at a computer whether that be software engineers needing a structured work/break cycle, students who want a proven time management technique, or remote workers who need encouragement to balance productivity and rest. Since our product integrates seamlessly with Google Chrome, there is no limit the the number of users who would benefit from using it.

5 Intended Use

The main purpose of PomBot is to facilitate personal time management for software Engineers. Using our product, it is easy to break work down into focused intervals with regular breaks improving productivity and reducing burnout. On top of the timer function, our product allows users to stay organized and plot out their workday, facilitating an organized approach to study sessions, work tasks, or any activity they want to focus on.

The PomBot should be used not as a tracking tool by management, but as a team wide tool to ensure productivity and meeting team goals. For example, a developer can use a personal PomBot to stay on track for their task for the day, or a manager can set a team-wide PomBot for the purpose of a Sprint planning session. Our PomBot can be used in any setting with the goal of enhancing productivity.

6 General Description

PomBot is a Chrome Extension that is an all in one Pomodoro timer, task scheduler, and break enforcer. Like many popular programs, PomBot will live in the extension hub of the Google Chrome window, and with one click the user will be brought to their Pomodoro session hub. Here, the user is able to create or manage their Pomodoro session.

When creating a Pomodoro session, the user has the option to give their session a name, select a custom Pomodoro length, and select either a team-wide (input team member emails) or indivudal Pomodoro session. Once the user selects this, they will be prompted to write a list of tasks for each Pomodoro session, encouraging an intentional and achievable schedule. Once this step is completed, they can begin their Pomodoro session. A team-wide Pomodoro session will send a summary of the tasks/breaks completed when the Pomodoro Session is over to each team member by email.

There will also be the option to edit notification/timing settings in a settings sidebar or request a recommended interval based on previous session times. This functionality allows the user some flexibility in how they want to interpret/apply the Pomodoro technique.

Once the user completes one Pomodoro stretch, PomBot will send a notification that it is time to take a break. Before the next session starts, it will remind the user of the tasks they have set to complete during the next Pomodoro. Managing the Pomodoro timer is as easy as clicking the PomBot extension. Once clicked, the user can view how much time is left in the current session, and is able to pause and resume if an impromptu break is necessary. The user can additionally edit the list of tasks as they work on each deliverable.