Executive Summary

February 24, 2025

Prepared by: The Nicholas

For: *Sir* Adam Spanier

1. Project Overview

Purpose:

Our team (Team Super Nova) noticed that the global software ecosystem was lacking a preponderance of free software-based calculators. Our team saw this as an issue, an issue that we have taken upon ourselves to fix. Our calculator will fill this gap in the relevant ecosystem, thus allowing anyone from school age children to accountants or corporate officers to be able to do necessary calculations without having to pay for its use or have persistent connection to the internet.

Scope:

This calculator will be able to do simple arithmetic as well as finding square roots. It will have an inviting "bubbly" interface that feels warm and chocolatey.

Methodology:

Team Super Nova will be using waterfall as the sole SDLC for this project which we have dubbed "***S.T.E.V.E.N - Error 404 – The Offline Calculator***".

Key Technologies:

Team Super Nova will be using Java as the primary coding language for this project. The platform we will be using will be GitHub, as this is required by *Sir* Adam Spanier.

2. Project Timeline & Phases

Planning & Requirements	Start Date: 2/18/25	End Date: 2/24/25	Status: ***Completed***
System Design	2/24/25	3/3/25	In Progress
System Development	3/3/25	3/10/25	Upcoming
System Testing	3/10/25	3/17/25	Upcoming
Deployment	3/17/25	3/24/25	Upcoming
Maintenance	3/24/25	3/31/25	Upcoming

3. Key Deliverables

1.Requirements Gathering	-User Requirements -Hardware Requirements -Software Requirements -Security Requirements
2. System Design	-System Architecture Mock-Up -UI Rough Mock-Up -ERD & DFD -Design Review & Approval
3. Development (Implementation)	-Code Fully Developed -Code Documentation -Unit Test Cases & Results -Development Sign Off
4.Testing	-Test Plan & Test Cases -Testing Reports -Bug Fix and Retest Reports -Test Completion Sign Off
5.Deployment	-Deployment Check List -Rollout Strategy -Deployment Sign Off
6.Maintenance & Support	-Post-Deployment Monitoring Reports -Issue Tracking & Bug Fix Reports -System Performance Optimization Reports

4. *Risks & Challenges*

Requirement Misinterpretation	Medium	Requirement documentation needs to be clear and understood by Team Super Nova before progressing
Scope Creep	Low	Make sure we follow K.I.S.S philosophy
Design Issues	Low	Review UI before moving to development
Collaboration Complications	High	Set clear expectations and deadlines for each phase and implement tracking system
Limited Knowledge	High	Assign tasks based on Team Super Nova's strengths and encourage team meetings and discussions to solve issues with knowledge gaps as they arise (communicate openly in real time)
Deployment Issues	Low	Make sure final testing is done in the environment calculator will run in before deployment

5. Next Steps & Action Items

Upcoming Milestone:

Phase 2: Design **–** Expected completion: 3/3/25

Key Decision Needed: Yes, Team Super Nova still needs to make all design decisions. (UML diagrams to come)

6. *Conclusion & Recommendations*

Team Super Nova is on track to complete the project on time on 2/31/25, to remain this status it is recommended that the team institutes a weekday evening as well as one on the

*weekends to coordinate and communicate status and hurdles amongst themselves as well as maintaining open lines of communication with **Sir** Adam Spanier.*