# SP-5 — Purple Groceries App

Senior Project 4850, Section 03, Fall 2025, 8/31, Sharon Perry

## Project Team

| Roles | Name | Role | Contact (Cell Phone) |
|---|---|---|---|
| Project owner | Sharon Perry | Professor | 770.329.3895 |
| Team leader | Carinne Tzurdecker | Lead | 470.365.9019 |
| Team members | Carinne Tzurdecker | Planning, analysis, design, testing | 470.365.9019 |
| | Vanessa Espinoza | Planning, analysis, design, testing | 404.796.6075 |
| | Piao Hou | Development, documentation, testing | 943.248.0451 |
| | Shane Hazeur | Development, documentation, testing | 425.614.8184 |
| Advisor / Instructor | Sharon Perry | Facilitate project progress; advise on project planning and management. | 770-329-3895 |



Carinne Tzurdecker
Documentation

Vanessa Espinoza
Documentation

Shane Hazeur
Developer

Piao Hou
Developer

# 1.0 Project Overview / Abstract (Research)

Everyone struggles with the gap between planning meals and actually buying the right food. With the launch of our Event-Driven Grocery Planner, a person will be able to map their upcoming week—dinners with friends, solo meal prep, gym-focused training blocks—and instantly receive a grocery list that adapts to their plans.

This app doesn't just compile recipes, it interprets context. By combining event scheduling, recipe intelligence, and smart portion scaling, it makes shopping as dynamic as life itself. Traditional meal planners often fall short because they assume every week looks the same. Our approach begins with the opposite assumption: no two weeks, no two events, no two grocery lists are ever alike.

Meal planning is a popular practice, but it means juggling multiple apps, sticky notes, and mental math to figure out portions and grocery needs. Our app solves this by creating personalized meal plans that adapt to your schedule, automatically calculate ingredient quantities, and generate organized shopping lists—all in one place.

# 2.0 Project website

https://purple-grocery-team.github.io/grocery/

# Deliverables - Specific To Your Project

- Team/Project Selection document (Individual Assignment)
- Weekly Activity Reports (WARs – Individual Assignment)
- Team Status Report (TSR – Group Assignment)
- Peer Reviews (Individual Assignment)
- Project Plan (Group Assignment)
- SRS, SDD, STP & Dev Doc (Group Assignment)
- Prototype Presentation for Peer Review (Group Assignment)
- Final Report Package (Group Assignment)
  - Final Report  (Group Assignment)
  - Source Code  (Group Assignment)
  - Website (Group Assignment)
  - Video Demo (Group Assignment)
  - iOS and Android compatible mobile time travel apps
- C-Day Application/Submission

# Group Meeting Schedule Date/Time

Every Tuesday afternoon.

2:00pm-3:15pm

# Collaboration and Communication Plan

Discord, Teams.

# Project Schedule and Task Planning

**Project Name:** SP-5 — Groceries App
**Report Date:** 8/31/2025

| Phase | Tasks | Complete% | Current Status Memo | Assigned To | Milestone #1 | | | | Milestone #2 | | | | Milestone #3 | | | | C-Day | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 09/02 | 09/09 | 09/16 | 09/23 | 09/30 | 10/07 | 10/14 | 10/21 | 10/28 | 11/04 | 11/11 | 11/18 | 11/25 | 12/02 |
| Requirements | Meet with stakeholder(s) SH | 50% | Delayed but complete | Carinne | 20 | 15 | | | | | | | | | | | | |
| | Define requirements | 0% | | Vanessa | 5 | 5 | | | | | | | | | | | | |
| | Review requirements with SH | 10% | | Shane | | 10 | 5 | | | | | | | | | | | |
| | Get sign off on requirements | 0% | Will add more figures | Carinne | | | 5 | 5 | | | | | | | | | | |
| Project design | Define tech required * | 0% | | Shane | | | | 10 | 5 | | | | | | | | | |
| | Database design | 0% | | Shane, Piao | | | | 5 | 5 | 5 | | | | | | | | |
| | Front End design | 0% | | Piao | | | | | | 10 | 10 | | | | | | | |
| | UI design | 0% | | Piao | | | 3 | 3 | 3 | 3 | 3 | | | | | | | |
| | Develop working prototype | 0% | | Piao | | | 5 | 5 | 10 | 10 | 10 | | | | | | | |
| | Test prototype | 0% | | Piao | | | | | | | 5 | 10 | 5 | | | | | |
| Development | Review prototype design | 0% | | Shane | | | | | | | | 5 | 5 | 5 | | | | |
| | Rework requirements | 0% | | Shane | | | | | | | | 5 | 5 | 5 | 5 | | | |
| | Document updated design | 0% | | Carinne | | | | | | | | | | | 10 | 5 | | |
| | Test product | 0% | | Vanessa, Carinne | | | | | | | | | | 20 | 10 | 20 | | |
| Final report | Presentation preparation | 0% | | Carinne | | | | | | | | | | | | 10 | 5 | 5 |
| | Poster preparation | 0% | | Vanessa | | | | | | | | | | | | | | 15 |
| | Final report submission to D2L and project owner | 0% | | Shane | | | | | | | | | | | | | | 5 |
| | **Total work hours** | | | **335** | 25 | 30 | 18 | 28 | 23 | 28 | 28 | 20 | 15 | 30 | 25 | 35 | 5 | 25 |

\* formally define how you will develop this project including source code management

**Legend**

| | |
|---|---|
| Planned | |
| Delayed | |
| Number | Work: man hours |

# Version Control Plan

GitHub