User Recipe Cooking Application

1. Trufflr (User Recipe Cooking Application)
2. Names and email addresses of team members (CSE members first--this is a plan for the CSE contribution)
   ○ Zev Lerner zlerner2018@my.fit.edu
   ○ Tyler LeCluse tlecuse2018@my.fit.edu
   ○ Hunter Plaks hplaks2018@my.fit.edu
   ○ Austin Sisinni asisinni2018@my.fit.edu
3. Faculty advisor: Fitzroy D. Nembhard fnembhard@fit.edu
4. Client:
   ○ Target Age Range 18 to 35
   ○ No to moderate kitchen experience
   ○ Users:
      i. Sterling Shrader (M20 No Experience)
      ii. Kaya Shipkowski (F21 Little Experience)
      iii. Steven Cheswick (M25 Moderate Experience)
      iv. Hannah Lin (F20 Moderate Experience)
5. Date(s) of Meeting(s) with the Client for developing this Plan:
   ○ Friday, September 3rd, 2021
6. Goal and motivation: Discuss the overall goal (help make the intended users "happier") and motivation (why are the intended users not too "happy"? limitations/pains of current systems)
   ○ Our goal is to design and develop an interactive web-based application that allows any user, regardless of experience, to truly shine in the kitchen. Users can find inspiration from suggested content, follow step-by-step guided cooking instructions, and express their own creations through recipe posts.
7. Approach (key features of the system): Discuss at least three key features/functionalities that your system provides for the users to help achieve the overall goal.
   (what features does your system have that can help make the intended users "happier"?)
   (at least one paragraph for each feature, more specific less vague) [e.g. Similar to app descriptions at Google Play, **NOT** the underlying tools]
   For interdisciplinary/exteral projects: focus on (identify) separate CSE features/contributions
   ○ User Submitted Recipes
      i. Trufflr is a social media platform that allows users to share their own recipes with others! Post your recipes and Trufflr will create step-by-step interactive instructions for anyone to cook with. Find new recipes or create your own and expand your culinary repertoire!
   ○ User Catered Content
      i. Through Truffler's personally tailored suggestions, users will be able to quickly find recipes and tutorials for whatever occasion. Trufflr delivers recipes tailored for you to make cooking that special meal easy and painless. Can't decide what to make for dinner? Get inspired by Trufflr.

- ○ Interactive Step-by-step Recipe Instructions
    - i. Follow simple instructions through a step-by-step process to make your recipe come to life.
    - ii. Visualize techniques with simple animations, images, or hints. Make a pizza and get an alert when it's ready to come out of the oven.
    - iii. Misread a step? Freely navigate through the steps so you never get lost in the sauce.
- ○ Search based on food type, dietary preferences, and allergy
    - i. Trufflr allows you to find recipes that suit your personal needs.
    - ii. Want to try out something different? Trufflr gives you the ability to search a wide variety of recipes that will suit your specific dietary requirements. Whether you have allergies, dietary restrictions, or just prefer a specific type of food, everyone has a recipe.

8. Novel features/functionalities: Discuss which features/functionalities, if any, are novel and why.
    - ○ Interactive Step-by-step Recipe Instructions
    - ○ Liking and Favoriting posts
    - ○

9. Technical Challenges: Discuss three main CSE-related challenges (for example, "we plan to use javascript for web programming, but we don't know much about javascript")
    - ○ Little experience with full-stack web development
    - ○ Little experience with Database creation/design
    - ○ No experience with creating Recommendation Systems

10. Milestone 1 (Oct 4): itemized tasks:
    - ○ Compare and select technical tools for Hosting Services,Databases(Relational, Object Oriented, Object Relational, NoSQL) and Database Management Systems
    - ○ Provide small ("hello world") demo(s) to evaluate the tools for full stack development
    - ○ Resolve technical challenges:
    - ○ Compare and select collaboration tools for software development, documents/presentations, communication, task calendar
    - ○ Create Requirement Document (Based on technical tools decided to be utilized)
    - ○ Create Design Document
        - i. Entity-Relationship (ER) Diagram for database design
        - ii. Front end Modeling (Adobe xd)
        - iii. Interaction Diagram (UML)
    - ○ Create Test Plan
        - i. Front end object creation and interconnectivity
        - ii. Population testing of frontend to database integration
        - iii. User task evaluation plan and testing using the Adobe xd UI prototype

11. Milestone 2 (Nov 1): itemized tasks:
    - ○ Conduct UI/UX testing based on user feedback for a conceptual interface redesign

- ○ Website Design Prototyping
- ○ Implement, test, and demo Individual Components of the system. (Database Population, Frontend Interactions, Simple recommendation algorithm)
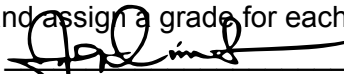12. Milestone 3 (Nov 29): itemized tasks:
- ○ Create a website with the basic core functionalities
- ○ Client testing of the core functionality
13. Task matrix for Milestone 1 (teams with more than one person)

Task	Hunter	Tyler	Zev	Austin
Compare and select Technical Tools	Databases 50%	Databases 50%	Frontend & Network Tools	Hosting
"hello world" demos	Databases 50%	Database 50% Frontend 25%	frontend object creation 50%	Frontend 25%
Resolve Technical Challenges	Query Languages, DLL creation, Full Stack inner workings	Recommendation Algorithms 50% User Authentication	Database integration, user authentication, saved user sessions	recommendation algorithm 50% Frontend Dev.
Compare and select Collaboration Tools	Calendar software for meetings	Presentation Software Communication Tools	Documentation software, UI/UX prototyping design software	Version Control, Code Reviews
Requirement Document	Write 40%	Write 20%	Write 20%	Write 20%

Design Document	Write 25%	Write 25%	Write 25%	Write 25%
Test Plan	Write 20%	Write 20%	Write 40%	Write 20%

14. Approval from Faculty Advisor
   - "I have discussed with the team and approve this project plan. I will evaluate the progress and assign a grade for each of the three milestones."
   - Signature: _____ Date: __9/7/2021__