1. Project title, names, and email addresses of team members (CSE members first)
    a. Trufflr (User Recipe Cooking Application)
    b. Zev Lerner zlerner2018@my.fit.edu
    c. Tyler LeCluse tlecuse2018@my.fit.edu
    d. Hunter Plaks hplaks2018@my.fit.edu
    e. Austin Sisinni asisinni2018@my.fit.edu
2. Faculty Advisor: name and email address
    a. Fitzroy D. Nembhard fnembhard@fit.edu
3. Client: name and affiliation (department at FIT, company name, ...)
    a. Sterling Shrader, Pre Med Student at Florida Tech
    b. Kaya Shipkowski, Ocean Engineering Student at Florida Tech
    c. Steven Cheswick, CS Alumni Working at ALTR
    d. Hannah Lin, Aerospace Student at Florida Tech
4. Progress of current Milestone (progress matrix)

Task	Completion %	Hunter	Tyler	Zev	Austin	To Do
Compare and select Technical Tools	100%	15%	35%	25%	25%	None
"hello world" demos	25%	0%	25%	0%	0%	Demos, Pushed to Milestone 2. Attempted But issues with current application
Resolve Technical Challenges	100%	25%	25%	25%	25%	Continue to learn and research the different tools and technology.
Compare and select Collaboration Tools	100%	25%	25%	25%	25%	None
Requirement Document	100%	70%	10%	0%	20%	Add future design requirements based on user feedback

Design Document	100%	15%	15%	70%	0%	Milestone,
Test Plan	100%	15%	15%	15%	55%	Additional project scoMilestonecessitate additions to the testing document in the following milestones.

5. Discussion (at least a few sentences, ie a paragraph) of each accomplished task (and obstacles) for the current Milestone.
    a. Compare and select Technical Tools:
        i. Databases were researched and developed a design diagram.
            1. MongoDB was selected
        ii. Node.js was selected for the environment because it is standard for web applications.
        iii. Express.js was selected for networking and API. Axios will be needed as a plug in.
        iv. React.js is chosen because it is an industry standard cross platform frontend framework.
        v. Hosting platform was chosen to be done remotely through digital ocean. The low cost centralization will allow for easier collaborative development while keeping costs low and retaining scalability.
    b. "hello world" demos:
        i. The “hello world” demos were being developed, but we ran into issues with connecting the front end and back end together. Currently we have a file structure set up with server side code that contains Nodejs, expressjs and mongoose. The server side code is ready to host and connect to a database. For the client side (frontend) we have a file structure set up with code that runs separately from the backend. We have decided that the “hello world” demos of these technologies will need to be moved to Milestone 2 to actually get it working.
    c. Resolve Technical Challenges: …
        i. Have done preliminary research into types of AI for content curation. Will be using a hybrid system that utilizes user similarity scores in conjunction with weighted statistical scores. This implementation will allow for content to be suggested even when it is newly added to the site.
    d. Compare and select Collaboration Tools:
        i. The collaboration tools we decided to use were google calendar because it works on every system and has a better UI than apple calendar. We decided to use google slides over powerpoint because of the ease of use

and collaboration capabilities. The documentation software we decided to use is google docs for the same reasons stated previously. We decided to use Adobe XD for the UI/UX software because of its interactive capabilities. For Version control systems were researched and compared to select a system. Git was chosen because of its lightweight easy to use system. It is an industry standard technology and widely used. For Code Review systems were looked at and compared. We decided since we wanted to use Git for the version control system, to just utilize github's integrated code review system for merge requests to fulfill the same purpose. Code Review and quality assurance are not as structured since we are a small team. Utilizing Discord for central communication.

e. Design Document:
    i. Completed the design document, demonstrating the background, scope, and target audience of our application.
    ii. Included models representing the functional flow of a MERN stack app, as well as the UML architecture diagram of our project.
    iii. Included GUI mockups of each core functionality / web page of Trufflr.
    iv. Included the Database Design Diagram of our graph database.
f. Requirement Document:
    i. Completed the requirements document. Outlined the core capabilities to consider our project a success. Outlined the functional requirements needed to describe how the core capabilities would work. Finally, outlined the nonfunctional requirements to describe what needs to be done to have the performance, usability, and maintainability be successful.
g. Test Plan:
    i. Demonstrated the workflow and focus of using Trufflr.
    ii. Identified test cases related to user engagement with the application, representing both front-end and back-end affecting scenarios.

6. Discussion (at least a few sentences, ie a paragraph) of the contribution of each team member to the current Milestone:
    a. Hunter Plaks: I took lead on the requirements document. I learned more about full stack development and database systems, particularly, MongoDB. Tyler alongside myself developed the design for the database.
    b. Austin Sisinni: My focus was on the team's collaboration infrastructure, test plan, Technical tools, and recommendation systems. I compared and selected the hosting platform for the system. I selected version control and code review systems with github. I researched recommendation systems and selected a hybridized user similarity score model to design.
    c. Tyler Le Cluse: My focus was on database systems and design. I spent time researching the different types of database designs and developed an understanding of what we needed to use for our application. I also focused on developing a hello world program utilizing the full stack. I unfortunately was unable to complete due to issues with communications between React and Node.

d. Zev Lerner: My focus within this first milestone was forming the design document. Describing how the MERN stack functionally operates and translated it to diagrams. Developed a strong basis for our application prototype in Adobe XD. Lightly looked into server hosting and what sub-modules can be used with Node.

7. Plan for the next Milestone (task matrix)

Task	Hunter	Tyler	Zev	Austin
Conduct UI/UX testing based on user feedback for a conceptual interface redesign	30%	0%	70%	0%
Website Design Prototyping	10%	10%	65%	15%
Implement, test, and demo Database CRUD operations.	30%	50%	0%	20%
Implement, test, and demo frontend interactions.	10%	20%	55%	15%
Implement, test, and demo simple recommendation algorithm.	10%	20%	0%	70%
“Hello world” demos	20%	60%	20%	0%

8. Discussion (at least a few sentences, ie a paragraph) of each planned task for the next Milestone or "Lessons Learned" if this is for Milestone 6
    a. Conduct UI/UX testing based on user feedback for a conceptual interface redesign
        i. Develop Personas of our client(s) to demonstrate our intended audience.
        ii. Create a functional flow of Trufflr to compare to user feedback.

iii. Identify the environment, test, equipment, and evaluators of our user testing.
iv. Create a task script and other evaluation metrics for testing.
v. Record data for quantitative and qualitative analysis, as well as future recommendations for improving Trufflr.

b. Website Design Prototyping
   i. Design specific UI/UX components for the application prototype.
   ii. Create realistic renderings of a complete functional flow of the prototype.
   iii. Add themes and color to website prototype.
   iv. Figure out the general layout of buttons and navigation.
   v. Connect prototype artboards into a cohesive and engagable application prototype to conduct user testing with.
c. Implement, test, and demo Database Population CRUD operations.
   i. We will be developing javascript code to perform the Creation, Retrieval, Update, and Deletion operations with a MongoDB Atlas Cluster.
   ii. Test the code on a larger database population with search queries.
   iii. Prepare the code to be adopted by the “hello world” demos.
d. Implement, test, and demo frontend interactions.
   i. Implement button mapping and page navigation.
   ii. Test buttons to make sure expected interactions happen.
   iii. Demo buttons and navigation with users.
e. Implement, test, and demo a simple recommendation algorithm.
   i. Create a hybridized user similarity score system to recommend content to users. This algorithm will simply look at example user data with recipes in the database and assign scores to each recipe for display.
f. “Hello world” demos
   i. Develop demonstration of utilizing the full stack, MongoDB/Mongoose, Express.js, React.js, and Node.js.

9. Date(s) of meeting(s) with Client during the current milestone:
   a. 9/8, 9/20, 9/29
10. Client feedback on the current milestone
   a. We received feedback from clients about how the interactive recipes would work and they suggested adding a timer for each step.
   b. Asked about if we planned on adding a feature to find a recipe based off of certain ingredients which we may decide to add for an enhancement next semester.
   c. Specified an additional feature for the advanced search: specify “do not include” options of specific ingredients.
   d. Need a more specific demonstration of how the guided recipe instructions work.
   e. Specified wanting a feature for easier instruction development.
11. Date(s) of meeting(s) with Faculty Advisor during the current milestone:
   a. 9/10 at 4 pm and 10/1 at 4 pm

12. Faculty Advisor feedback on each task for the current Milestone

- Compare and select Technical Tools -
- "hello world" demos -
- Resolve Technical Challenges -
- Compare and select Collaboration Tools -
- Requirement Document -
- Design Document -
- Test Plan -

Faculty Advisor Signature: _____ Date: _____

Evaluation by Faculty Advisor

Faculty Advisor: detach and return this page to Dr. Chan (HC 214) or email the scores to pkc@cs.fit.edu
Score (0-10) for each member: circle a score (or circle two adjacent scores for .25 or write down a real number between 0 and 10)

Hunter Plaks

0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

Austin Sisinni

0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

Tyler Le Cluse

0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

Zev Lerner

0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10

Faculty Advisor Signature: _____ Date: _____