Progress Report

- Increment 1 -

Group 10

1) **Team Members**

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2) **Project Title and Description**

Running Buddy:

An app that helps runners decide where they should run, and what they should wear for their run. It would then recommend what you should wear (long sleeves, gloves, etc), and would take into account temperature, wind speed, and humidity. The second part is the route recommender, which would have a list of user saved routes with different parameters such as terrain (concrete, asphalt, dirt) and elevation change. A weekly workout planner would also be included, which could provide workout schedules (for certain goals). We also hope to implement shoe mileage tracking.

3) **Accomplishments and overall project status during this increment**

During our first increment, we mostly focused on creating an organizational structure that worked best for us, along with getting some of the details sorted out for the basic components of our app. Our group joined via discussion post by Alex, who had an idea for an app that could recommend clothing

to runners based on the weather and their sensitivity to heat/cold. In our first meeting, we further expanded on this idea, doing research to determine what other apps/systems existed that were similar to ours, and how to make ours better. We found a few sites/apps that offered the same features, so we decided to expand the scope of our app to make it an all-in-one running app, with not only the clothing recommender, but also a route planner/tracker, a workout planner, and a shoe mileage tracker. Another aspect of this research was finding any APIs that would work well with our project, along with deciding on what languages/frameworks to use.

Our second meeting focused mainly on getting the github repository set up, working on the IT/RD/PR documents, and beginning work on our issue tracker. We all shared the documents with one another and collaboratively worked on the IT document, adding the frameworks, APIs, and languages we planned to use for the project. On the RD document, we went through each part and created the subsequent diagrams for the respective parts. We created a google sheets document where we would write down our issues for the issue tracker. Throughout the week after the meeting, we imported the issues to the git repository and began working on the actual code for our app. Our goal by the end of increment one was to have the bare bones, so we initialized the .NET MAUI project, began creating a skeleton of our data classes and a home page to have some semblance of a prototype to show in the increment one video.

4) Challenges, changes in the plan and scope of the project and things that went wrong during this increment

Our first initial challenge during this increment was determining how our app would differ and be better than those currently available to users. Originally, our app was going to be simply a clothing recommendation system based on the weather. Many apps like this existed already, so we decided to take our idea a step further and extend the scope to also involve workout planning/tracking, route planning, and shoe tracking in order to offer more to the user in one app. Another issue that arose was determining what APIs we should use. When searching for possible APIs to use for our project, many were inaccessible or cost money to implement, and we would like to keep this project free. This was not a difficult hurdle, however, as the sheer number of free APIs available was more than enough for us to find some that would work well for our project. We also had some difficulty implementing the issue tracker script in the github repository, but after some researching, we were able to determine how to properly structure the files in the repository in order to get the workflow to perform correctly and import our issues into the issue tracker.

5) Team Member Contribution for this increment

Kirra Orndorff

a) Contributed to the project title and description (copy and pasting from the RD document) the section regarding our first initial challenges with the API and github issue tracker. Added some detail to the plans for our next increment, along with some of our accomplishments/project status for increment one.
b) Contributed to the functional and nonfunctional requirements, reorganizing the group's notes into a more cohesive list, added high, medium, and low markers to the requirements, created the use case diagram, described the operating environment, and organized some of the assumptions and dependencies into a readable format and added descriptions to each
c) Contributed to both parts 1 and 2 of the IT document, organizing the group's notes into a more structured and professional form
d) Initialized the .Net MAUI project by adding a solution file and initial MAUI structure
e) Filmed Video

Alexander Jubran

a) Wrote the Stakeholder communication email and plans for next increment
b) Provided the project idea as well as some expanded features, contributed to requirements discussion for RD
c) Contributed during discussion of programming language and APIs section for the IT document and explained how .net maui has persistent storage
d) Created the user class and the demo home screen xaml
e) the video or presentation

Lauren Chang

a) Contributed to discussions of IT and RD documents. Input ideas for functional and nonfunctional requirements as well as the class and use case diagrams
b) Contributed to functional and nonfunctional requirements, added some markers to requirements, and provided a couple expanded ideas
c) Participated in discussion of APIs and programming languages we would use
d) Created weather class
e) the video or presentation

Riley Galpin

a) Contributed to discussions and organization of the IT and RD documents including input on how to structure the front and back end, functional and nonfunctional requirements, and the class and use case diagrams.
b) Researched valuable API's we may need for our project including google maps and google calendar API, and National Weather API.
c) Added the majority of the issues to the spreadsheet including specifying levels of priority and front/backend designations to create a foundation to work from.
d) Created the Goals, Shoe, Routes class on the backend to create the foundation of our backend on which to build the screens around.

Michael Greenberg

a) Contributed to the progress report by actively participating in all meetings to help planning discussions and providing direct input and revisions during its development.
b) Contributed to the RD document by creating the class and sequence diagram.
c) Contributed to the IT document through technical input by giving input on system design, selected packages and APIs, and how different parts of the system work together during team review discussions.
d) Contributed to the source code by researching and selecting the packages and APIs the team will use. Have not yet added code, as the focus this increment was on planning, diagrams, and project setup.

6) Plans for the next increment

We are planning to complete some of the basic/core features in the next increment. The front end will be our main focus so that we can have a working prototype by the end of increment two to show for the video presentation (and our "stakeholders"). This includes all necessary UI screens, the clothing recommender algorithm, weather data entry, and shoe mileage tracking. We also plan to begin

implementing the APIs needed for the route tracker and weather section of our app, with both the GPS version of weather and manual version fully implemented.

7) Stakeholder Communication

Dear Stakeholders,

We are happy to report our team has successfully completed the first development state of the application “Running Buddy”. The current state of the application is nonfunctional, with all the foundations laid. All project documentation has been completed, including a project roadmap and a technical outline for the required features (think of this like a blueprint). We have also created a demo home screen we would like your input on. We have prepared a demonstration video, and would appreciate any feedback you have. Thank you all for your continued support.

Sincerely,
The KLARM Team

8) https://www.canva.com/design/DAHCFnTV7Oc/TEhA1VcpWUAT6UY7N1andg/watch?utm_content=DAHCFnTV7Oc&utm_campaign=designshare&utm_medium=link2&utm_source=uniquelinks&utlId=hb0f6282f13

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