

Milestones:

1. Climbing Visualization. This will be how we will represent the optimal path to the climber. Current idea is to use a stick figure overlaid on the provided picture.
2. Pathfinding AI: Using an algorithm such as A* to solve the problem of giving the user the best path up
3. App layout and UI: This will be on deciding what kind of layout or design is required for the application
4. Image processing: This recall on how the images will be taken for the image processing.
5. Database and data management: User info and data will be stored in a secure database to be accessible.
6. Environment: researching and using an environment which will be more simple and easy to understand and available.
7. App Deployment: All the processes around getting the app available on the store to be used.

Timeline:

Milestone No.	Task Id	Effort	Start	End	Primary Party
Environment Setup	Best environment available for app development	100%			Oankar
	1)Download the environment	100%	8-9-2024	13-9-2024	Oankar
	2) Research	100%	8-9-2024	13-9-2024	Oankar
	3) Testing	100%	1-12-2024	till the end	Oankar
Pathfinding AI					

	1. Research Path planning algorithms	25% each	9-26-24	10-2-24	Everybody
	2. Develop Heuristic for A*	Ethan(75%) Tristan(25%)	10-3-24	10-10-24	Tristan, Ethan
	3. Develop a prototype for the pathfinding	100%	10-10-24	10-24-24	Tristan
	4. Test prototype and document results	100%	10-24-24	10-31-24	Tristan
	5. Refine prototype	100%	11-1-24	11-15-24	Tristan
	6. Begin finalizing development of final path planning	100%	11-15-24	TBD	Tristan
App UI					
	1. Research and Document how best to implement basic app UI	50%-50%	20/09/2024	28-09-2024	Oankar,Ethan
	2. Implement basic app UI	100%	2/12/2024	Till the end	Oankar
	3. Test UI is functioning properly	100%	2/12/2024	Till the end	Oankar
Image Processing					
	1. Research and Document Image Scanning	100%	10-14-24	10-21-24	Ethan

	Implement image scanning	100%			Ethan
	Test image scanning and document results	100%			Ethan
	Research and Document Blob Detection	100%	10/21/24	10/28/24	Ethan
	Implement blob detection	100%			Ethan
	Test blob detection and document results	100%			Ethan
Visualization					
	1. Research and Document Tools for Movement Visualization	100%	10-3-2024	10-10-2024	Bridget
	2. Implement movement visualization	100%	10-10-2024	?	Bridget
	3. Test movement visualization and document results	100%			Bridget
Database					
	1. Research and Document How to store user data	100%	10-10-2024	10-17-24	Bridget

	2. Implement mechanism for storing user data	100%	10-17-24	?	Bridget
	3. Test ability to store user data	100%			Bridget
App Deployment					
	1. Research and Document how to get an app on the Google Play store	100%	11/4/24	11/11/24	Ethan
	2. Implement the necessary protocols to get an app on the app store	100%			Ethan
	3. Test the app is available and usable from the app store	100%			Ethan