

Milestone 1

Title:

Smart Stride: Toe-Walking Rehab

Names & Emails:

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Faculty Advisor:

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Progress of Milestone 1:

Task	Completion %	Cianna	To Do
Investigate tools	100%	100%	N/A
Demos	100%	100%	N/A
Requirements Doc	100%	100%	N/A
Design Doc	100%	100%	N/A
Test Plan	100%	100%	N/A
Implement, test & demo Login	10%	100%	Look into login security practices, implement
Implement, test & demo Connect Database	30%	100%	Look into helpful python libraries (py mathlib, pyplot), connect database, retrieve data, etc.

Discussion (Milestone 1):

- Choosing Server Host:
 - Choosing the server host was the hardest task of milestone 1 because there are many different options but not many allow the connection of a database and if they did allow a connection of a database it was quite expensive for the database to hold any significant amount of data. Many of the hosting options were not up front about their capabilities beyond the fact that you can host a basic website so in order to test the options a dummy website had to be created to test what the hosts capabilities were.

Ultimately I settled on AWS because it allowed the most flexibility without the high price tag.

- Setting Up website:
 - Setting up the website for the first time was a bit of a challenge with AWS because I did not know that the homepage of the website html file had to be called index.html or that it must be in a Zip folder to deploy the website. After watching a few tutorial videos on how to set up the website for the first time it was simple to deploy and test changes made to the website.
- API Calls:
 - API calls or links to new pages within a website was something I had no previous knowledge of previous to this assignment. Luckily in the tutorials I watched to set up the website for the first time they described API calls and explained how to do those as well so when it came time to implement my own it was not unfamiliar or difficult to accomplish. I have added several API calls to the website and they all function well. The only issue I seem to encounter is after I deploy new updates to the website occasionally my browser will not register the API calls correctly, but other browsers will still be able to use the updated API calls. I think deploying updates too frequently in a short amount of time causes this issue in my browser but does not seem to affect others.
- Website Skeleton Setup:
 - The BME team had given me a basic skeleton of how they would like the website to be navigated, and Bela had made basic html files to mark the pages and photos of example data to use so after I had set up the website on the server I integrated her html files as well as the example data to be represented on the website. The only issue I had with this task was matching the names of the html files she had given me to the ones used in the API calls Other than this one snag this step was very straightforward.
- Adding Documents & Photos:
 - Adding the documents downloads and adding photos to the website was a bit tricky at first because I did not know how to reference a non-html file within the Zip folder to be deployed. After some research I found the best practice was to keep your html and documents/photos separate and to reference the folder that the documents and photos were in to call them through the html files.

Contribution:

Bela had created some basic html files and created the layout on paper of how the website was to be navigated. Implementing these html files and creating the website structure was done by Cianna as well as looking into the tools, setting up the hosting service, and organizing the website.

Plans for Milestone 2:

Task	Cianna
Create Patient Login	Create Patient Login
Create Practitioner Login	Create Practitioner Login
Establish Security of Logins	Establish Security of Logins
Create separate Login pages	Create separate Login pages
Create a forgot password/ help button	Create a forgot password/ help button
New User Sign Up	New User Sign Up

Discussion (Future Milestones):

- Create Patient & Practitioner Login:
 - The website will need to accommodate two different users. One will be the patients and the other will be the practitioners. Having two different logins will help separate the two kinds of users making it easier to accommodate the users. The practitioners should not be able to login into the patient's side of the website and vis versa. After logging in to the website should lead them to their own profile page.
- Establish Security of Logins:
 - Since we are dealing with patients' data a certain level of security is expected. I will need to further investigate the security of login data after I can establish a working login for both patients and practitioners. The first level of security is not allowing patients to login as practitioners.
- Create separate Login pages:
 - Once the patient or practitioner has logged in, the website should guide them to their own user page. This means every user no matter the kind of user will have a unique page. The practitioner that is registered with the patient should be updated to have access to all their patients' unique pages as well.
- Create a forgot password/ help button:
 - If a user has forgotten their password or username there should be some kind of help provided for them to get back into their account. Research will need to be done on the best way to provide this help without compromising the security of the users. Some help should also be provided if the user clicked on the wrong login. Example being a patient is trying to login on the practitioner login and does not realize.
- New User Sign Up:
 - New users will need to create an account so that their data can be shown on the website. They will also need to connect to a practitioner who has already signed up on the website. The practitioner should not be required to have a patient when they sign up. Both will need to choose a password and username upon signing up.

Meeting Dates:

Wednesdays 1pm-2pm

Client Feedback:

- Improve the visuals of the UI
- Add Section for a motion capture video to be displayed under a patient's profile
- Change the name from ITW Assessment to Smart Stride: Toe-Walking Rehab
- The description paragraph on the homepage will be rewritten by the clients later
- The photo of the device on the homepage will be replaced with a real photo once the device is built.

Advisor Meetings:

Thursday September 19th 2-3:15

Advisor Feedback:

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Faculty Advisor Signature: _____ Date: _____

Evaluation by Faculty Advisor:

Task for Faculty Advisor: detach and return this page to Dr. Chan (HC 209) 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)

Cianna Grummer	0	1	2	3	4	5	5.5	6	6.5	7	7.5	8	8.5	9	9.5	10
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Faculty Advisor Signature: _____ Date: _____