

Milestone 5

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SmartStride



Milestone 5

Task	Progress	To Do
Define sections	100%	N/A
Create pie chart	100%	N/A
New page for past results	100%	N/A
Create API and Lambda functionalities for pie charts	100%	N/A
Create API and Lambda functionalities for past results page	100%	N/A

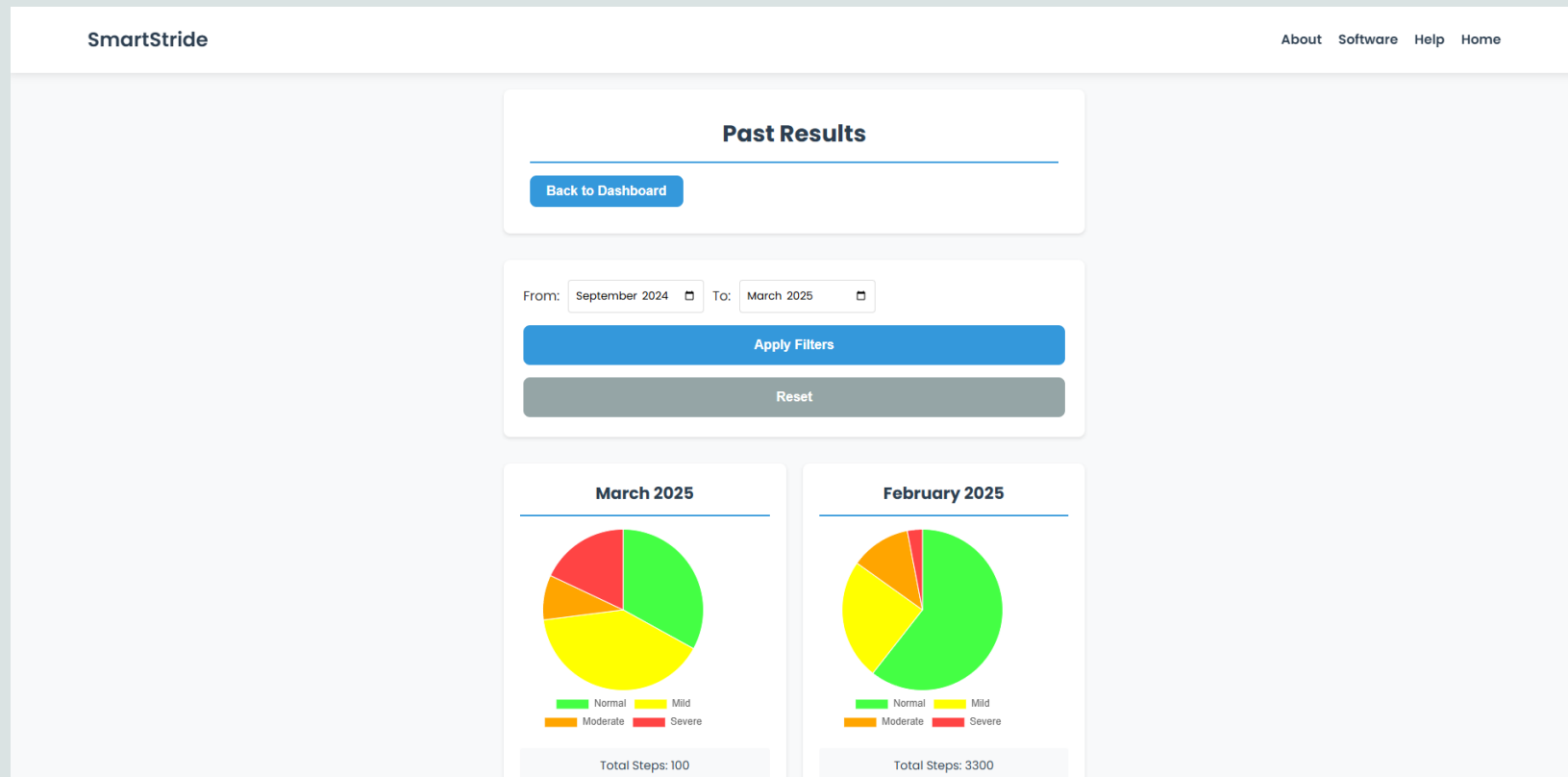
Define Graphs

- Changes made:
 - *Renamed EMG Analysis to "Gastrocnemius EMG Activity"*
 - *Remove "Gait Analysis with step classification" section*
 - *Pie Chart will go under "Monthly Session Details"*
 - *Put average ITW foot angle under "Last PT Session Details" (doctor)*
 - *The time series plot showing averages over 1 gait cycle for ITW vs Normal Step (x = time, y = angle (degrees)) (doctor)*



Past Results Page

- Accessible through “See Past Results” button under the main page pie chart
- Initially shows all patient results
- Can filter by month and year
- Uses the same API/Lambda as main page pie chart



Milestone 6

Task	Progress	To Do
User and/or Developer Manual	0%	Create user and/or dev manual
Demo Video	0%	Start creating a demo video
SmartStride Poster	10%	Complete my section in the SmartStride poster
Update User Guide	50%	Talk to SmartStride team to create a user guide for device
Update About Us Page & Home Page Description	30%	Work with SmartStride to create a more accurate description
System Testing & Evaluation	15%	Create a user survey, find testers, conduct login and data testing



User and Developer Manual

- User Manual
 - *Two user types patient and clinician*
 - *Shared sections: Sign-up, Log-in, Device Guide*
 - *Patient sections: Raspberry Pi app guide, manual upload, reading pie charts and severity bar*
 - *Clinician sections: Adding/dropping patients, viewing patient data, editing patient goals*
- Developer Manual:
 - *Diagrams and explanations of website structure, database structure, AWS tools (API, RDS, CloudWatch etc.)*
 - *How to guide for accessing the database using VCP security groups*



Demo Video

- Will show key website features:
 - *Sign-up and Log-in*
 - *Uploading data*
 - *Patient & clinician dashboards*
 - *Past results with filters*
 - *Raspberry Pi app*
 - *Real time updates when uploading data*



Updating User Guide, About Us, and Home Page Descriptions

- User Guide Page:
 - *Currently has minimal information*
 - *Will include:*
 - SmartStride device instructions
 - Raspberry Pi app instructions
 - User manual for patients and clinicians
- About us page and home page
 - *Rewrite to better describe the SmartStride device and website*
 - What it is used for
 - Why it was made



System Testing & Evaluation

- Three evaluation categories:
 - *Usability*
 - User survey to be completed after completing number of tasks
 - *"How easy was it to find the sign-up page?" (1-5 stars)*
 - *One open ended feedback section*
 - *Reliability*
 - Test data upload and login success rates
 - *Data upload: 99% ideal, 95%-98% acceptable, <95% needs improvement*
 - *Login success rate: 99% ideal, 90%-98% acceptable, <90% unacceptable*
 - *Accuracy*
 - Compare data uploaded to original data
 - Get success rate from comparing number of uploads to number of uploads where data matches





Questions?

