

Sprint 3 Plan (11/8/2023 - 11/21/2023)

Heading: Sprint 3 Plan, Robot Ear, 11/8/2023

Overall goal: Frontend sends .wav file, backend sends array back of music notes, music sheet pdf is created and can be downloaded by the user. Start documentation and coding standards.

TASK LIST:

User story: {High} As a user, I want the web application to well connected so that it is functioning { 3 }

- Get request of the data from the backend (1-2 hours)
- Download API endpoint (test with postman) (1-2 hours)

Total Hours: 3

User story: {High } As a user, I want to be able to receive a pdf of generated sheet music so that I can reference it { 3 }

- Look into javascript library(vex flow) to create pdf for the user (2 hours)
- Implement (4 hours)

Total Hours: 6

User story: {Medium} As a user, I want to be able to log into the web application { 4 } (stretch functionality)

- Research and implement login functionality (4-5 hours)

Total Hours: 4 hours

User story: {Medium} As a user, I want to be able to save my sheet music on the web application so that I can reference the sheet music in the future { 4 } (stretch functionality)

- Create the endpoint to save the string of notes (1 hour)
- Tweak the database model to be able to handle this functionality (30 min)
- Implement the front-end for this functionality (3 hours)
- Call endpoint to save notes from the front-end (30 min)

Total Hours: 5

User story: {Low} As a user, I want the web application to be well tested, so that I get the most precise sheet music { 2 }

- Thoroughly test classifier (2 hours)

Total Hours: 2

TEAM ROLES

Elliott Jensen: Product Owner

Rishita Wairagade : Developer

Melany Del Cid Chavez : Scrum master

Tanya Gyanmote : Developer

Ana Melissa: Developer

Lily Faris: Developer

TASK ASSIGNMENT

Elliott Jensen: classifier

Ana Melissa: classifier

Rishita Wairgrade: Fixed window segmenter +pdfer

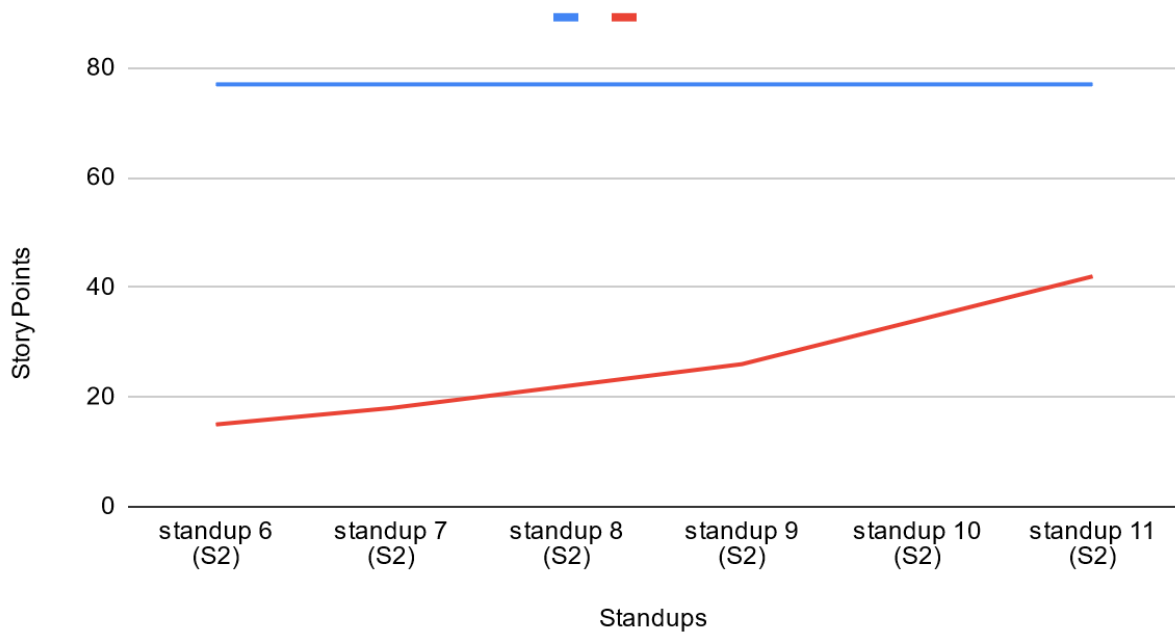
Lily Faris: Fixed window segmenter + pdfer

Melany Del Cid Chavez: Figma and React Components +pdfer

Tanya Gyanmote: Figma and React Components + pdfer

INITIAL BURNUP CHART

Burnup Chart Sprint 2



SCRUM BOARD

RE Sprint 3

Frontend sends .wav file, backend sends array back of music notes, music sheet pdf is created and can be download...

MC

AM

EJ

RW

GROUP BY

None

Insights

View settings

TO DO 6

Look into javascript library(vex flow) to create pdf for the user
Look into javascript library(vex flow) to create pdf for the user
RE-24

Get request of the data from the backend
RE-25

Download API endpoint (test with postman)
RE-26

Use hummingbird supercomputer to train model

IN PROGRESS 4

{ Medium } As a user, I want the web application to have advanced technology such as ML technologies so that I can have the most precise sheet music { 5 }
RE-20

As a developer, I will train machine learning ViT (visual transformer) model on .wav files with poor audio and background noise files (total training data over 22gb)
RE-11

{ High } As a user, I want to be able to receive a pdf of

DONE

Use hummingbird supercomputer to train model with 128GB train set Use hummingbird supercomputer to train model with 128GB train set
RE-27

Documentation + Coding standards
RE-28

Test classifier
RE-29

{ High } As a user, I want to be able to receive a pdf of generated sheet music so that I can reference it { 3 }
RE-21

{ Medium } As a user, I expect the web application to be able to classify notes even better by giving it a audio file so that it can find the notes { 4 }
RE-19

Standup Meeting times:

Monday : 9:30-10:30

TA Meeting: 10:45-11:15

Wednesday: 12:30-12:45

Friday: 12:00-12:15