

Project application

Die Melodie – Music sheets reading software for blind people

This document contains confidential information about the project <Music sheets reading software for blind people> and may only be passed on within the FH Technikum Wien project team and to the persons explicitly listed in the distribution list below.

Project team [alphabetical]

Name	E-mail	Telephone (optional)
László Magócsi	ic22x001@technikum-wien.at	
Andrea Spasojevic	ew21b090@technikum-wien.at	

Project supervisors, customers, taught [alphabetically].

Name	E-mail	Telephone (optional)
Susanne Buchner-Sabathy	buchners@technikum-wien.at	
Martin Deinhofer	deinhofe@technikum-wien.at	
Agnes Scheibenreif	ma0027@technikum-wien.at	

Document Development

Version	Description	Date
1.0	First creation of the document.	01.04.2023
2.0	Final version of the document.	25.06.2023

Version	Author	File name	Last change	Print date	Page
2.0	Andrea Spasojevic	AH-project_vision- andrea_spasojevic- laszlo_magocsi-2023	25.06.2023	25.06.23.	1/3



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Project short description

Die Melodie is a software created with python that provides music sheet recognition for people with vision problems. Only a scanned .pdf document is needed, whose notes will be recognized by this software. It can read the notes notations rhythmically. Converted notes are saved as a PDF file that can be read by python developed software. Notes are also converted to MIDI file that can be played, which makes a learning now songs easier. All the python software is meant to be connected in a simple web application. A web application is created using HTML and CSS.

Goals and project delimitation

- Basic understanding of an ABC notation.
- Creating software that converts musical sheets into hearable and followable information.
- Software created a PDF with converted notes.
- Creating software to read a PDF aloud.
- Creating software to convert the notes to a MIDI playable file.
- Can't handle musical instructions (crescendo).
- Sometimes a converted notes are one scale lower than meant.
- Python maybe was not the best solution for this task.

Project team and team roles

Name	Main responsibility	Team Roles
László Magócsi	Software	Software developer
Andrea Spasojevic	Project management, software, web application	Project management, software developer

Task Matrix (R=Responsible) including estimated task effort (in person hours)

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2.0	Andrea Spasojevic	AH-project_vision- andrea_spasojevic- laszlo_magocsi-2023	25.06.2023	25.06.23.	2/3



# A V	Work package	T. Krammer	L. Magócsi	A. Spasojevic	Person hours Estimate
1000	Project preparation phase				26,0
1100	Assemble team, division of roles	Χ		R	3,0
1200	Project planning (online meetings)	Χ		R	12,0
1300	Project planning (meetings on campus)	Χ	R		11,0
2000	Project implementation phase				133,0
2050	Know-how development	Χ	R	R	11,0
2100	Concept creation	Χ		R	3,0
2150	Get necessary information	Χ	R		8,0
2200	Set up environment	Χ	R	R	4,0
2250	Get old projects to work 1.0	Χ	R		15,0
2300	Web application 1.0	Χ		R	6,0
2350	Creation of readaloud software	Χ		R	7,0
2400	Get old projects to work 2.0	Χ	R		12,0
2450	Creation of new convertnotes software	Χ	R	R	20,0
2500	Creation of notestomidi software	Χ	R	R	9,0
2550	Web application 2.0	Χ		R	6,0
2600	Test 1.0	Χ	R		6,0
2650	Bug fixing	Χ	R		10,0
2700	Test 2.0	Χ		R	4,0
2750	Web application FINAL	Χ		R	12,0
3000	Project follow-up phase				11,0
3100	Project evaluation	Χ	R		4,0
3200	Final test	Χ		R	3,5
3300	Final approval	Χ		R	1,5
3400	Create final presentation	Χ	R		2,0

Rough schedule and priorities n

Logic ready	30.04.23.
Data ready	07.05.23.
Evaluation	17.05.23.
Tests finished	01.06.23.
Software ready	01.06.23.
Web application	10.06.23.
Presentable	15.06.23.

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2.0	Andrea Spasojevic	AH-project_vision- andrea spasojevic-	25.06.2023	25.06.23.	3 / 3
		laszlo magocsi-2023			