

## Milestones

- 1) Retrieving first Spotify Data and displaying on a webpage
- 2) Data cleaning and storage process along with a more developed visual component and passing of the data to algorithm backend
- 3) Have a beginning working of a recommendation algorithm
- 4) Dynamic data visualizations on the frontend with live data

## Task Timeline

These are not exactly chronological as a lot of tasks will be done concurrently by different team members

Spotify Middleware = Green

Front End = Blue

Recommendation Algorithm = Orange

*NOTE: All dates are tentative and based off due date predictions. End dates are deadlines for proper integration*

	Task Desc	Start Date	End Date
0	Research Spotify API	10/1/24	TBD
1	Research framework/language that the webapp will be built in	TBD	TBD
2	Design proof of concept pages and mockups	TBD	TBD
3	Front end navigation map	TBD	TBD
4	Determine what features will be planned for and accessible via frontend	TBD	1/21/25
5	Obtain sandbox environment	TBD	11/1/24
6	Build out listening history section	TBD	4/12/25
7	Build out recommendation section	TBD	4/12/25
8	Dynamic transfer of parsed data via pipeline from api	1/1/25	4/20/25
9	Host site	TBD	4/1/25
10	Minimum viable product/Presentation	4/1/25	4/20/25
11	Obtain spotify developer account	10/14/24	10/21/24
12	Connect to spotify api	10/14/24	11/1/24
13	Collect and clean data	10/14/24	1/1/25
14	Parse and send to front end and recommendation algo respectively (Global Format I/O)	10/14/24	1/1/25
15	Develop MVP and document code and spotify api integration	4/1/25	4/20/25

16	Create music history analysis based on retrievable spotify data	10/9/24	1/1/25
17	Research prediction algorithm(s) and methodologies for predicting what a user may like	10/9/24	3/1/25
18	Design the prediction algorithms	1/1/25	4/1/25
19	Implement prediction algorithm, coordinate with frontend for what UI / UX should be	1/1/25	4/1/25
20	Pipeline data from back to frontend	1/1/25	4/20/25
21	Document algorithm	10/1/24	4/20/25
22	Algorithm quantifiable improvements? Ie testing accuracy of algo? Feel like we should have a metric on this..	3/1/25	4/20/25
23			
24			
25			

### Effort Matrix per Task

	Task Desc	Assigned To	Hours
0	Research Spotify API		
1	Research framework/language that the webapp will be built in	Seamus	4
2	Design proof of concept pages and mockups	All	6
3	Front end navigation map	Chris	3
4	Determine what features will be planned for and accessible via frontend	All	3
5	Obtain sandbox environment	Seamus, Chris	2
6	Build out listening history section	Chris	8
7	Build out recommendation section	Chris	8
8	Dynamic transfer of parsed data via pipeline from api	Seamus	10
9	Host site	Seamus	5
10	Minimum viable product/Presentation	All	12
11	Obtain spotify developer account	All	0.5
12	Connect to spotify api	Seamus	1
13	Collect and clean data	Noah	8
14	Parse and send to front end and recommendation algo respectively (Global Format I/O)	Seamus	6
15	Develop MVP and document code and spotify api integration	All	12
16	Create music history analysis based on retrievable spotify data	Justin	8
17	Research prediction algorithm(s) and methodologies for predicting what a user may like	Noah, Justin	6
18	Design the prediction algorithms	Noah, Justin	8

<b>19</b>	Implement prediction algorithm, coordinate with frontend for what UI / UX should be	<b>Noah, Justin, Chris</b>	<b>15</b>
<b>20</b>	Pipeline data from back to frontend	<b>Justin</b>	<b>3</b>
<b>21</b>	Document algorithm	<b>Noah, Justin</b>	<b>4</b>
<b>22</b>	Run algorithms through subjective and objective tests for accuracy	<b>Noah</b>	<b>12</b>
<b>23</b>			
<b>24</b>			
<b>25</b>			