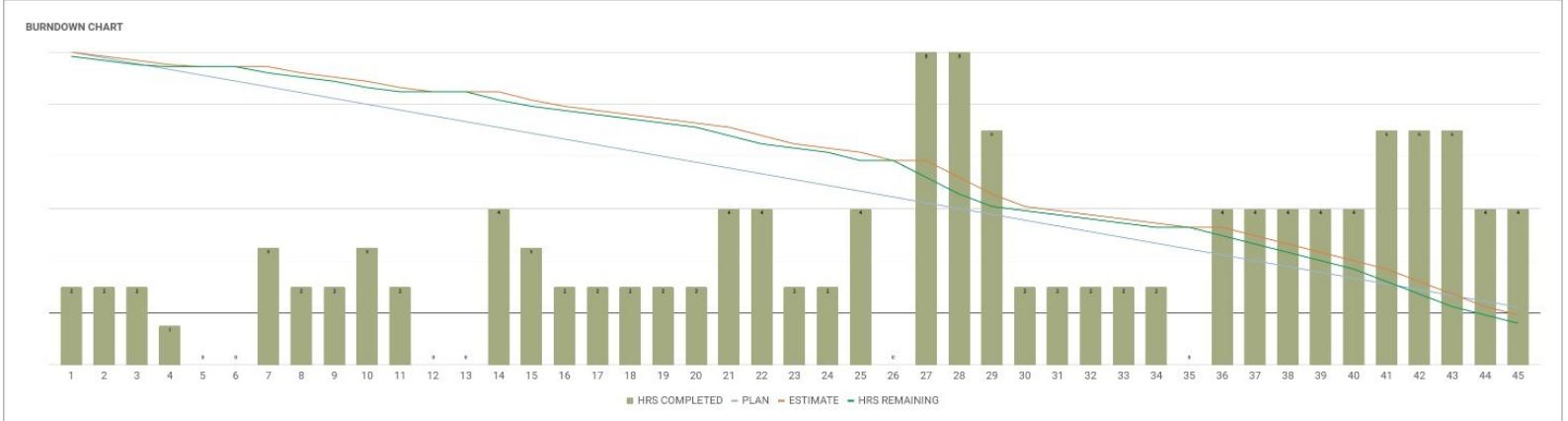


Work Breakdown Structure		Task Title	Task Owner	Amount of Work in Hours			Sprint	Start Date	Due Date	Duration	Pct of Task Complete
				Estimate	Completed	Remaining					
1	Project Definition			20	20	0	1				100%
1.1	Ideas Brainstorming	Everyone		4	4	0	1	12/23/2024	12/24/2024	2	100%
1.2	Research of Information	Everyone		6	6	0	1	12/24/2024	12/26/2024	3	100%
1.3	Project Planning	Everyone		4	4	0	1	12/25/2024	12/29/2024	5	100%
1.4	Scope, System Objectives & Goals Definition	Everyone		3	3	0	1	12/27/2024	12/30/2024	4	100%
1.5	Technical Architecture Sketching	Everyone		1	1	0	1	12/30/2024	12/31/2024	2	100%
1.6	Project Proposal	Everyone		2	2	0	1	1/11/2025	1/11/2025	1	100%
2	Project Setup			17	18	-1	2				106%
2.1	User Stories	Everyone		1	1	0	2	10/2/2025	10/4/2025	3	100%
2.2	Wireframes	Everyone		7	7	0	2	10/4/2025	10/8/2025	5	100%
2.3	Function Points & COCOMO Estimation	Everyone		3	3	0	2	10/8/2025	10/11/2025	4	100%
2.4	Documentation	Everyone		6	7	-1	2	10/11/2025	10/13/2025	3	117%
3	Back-End Implementation			44	50	-6	3,4				114%
3.1	Song Management	Rocchi		5	5	0	3	10/4/2025	10/5/2025	2	100%
3.2	User Service and API Gateway	Cornici		10	12	-2	3	10/12/2025	10/14/2025	3	120%
3.3	Follow and Feed System	Rocchi		8	12	-4	4	10/14/2025	10/18/2025	5	150%
3.4	Elastic Search	Cornici		10	10	0	4	10/25/2025	10/27/2025	3	100%
3.5	Song Liking Logic	Rocchi		4	4	0	4	10/29/2025	10/29/2025	1	100%
3.6	Upload to MinIO	Cornici		7	7	0	4	10/30/2025	10/31/2025	2	100%
3.7	Notification system	Cornici/Rocchi		5	9	-4	4	10/4/2025	10/16/2025	13	180%
4	Front-End			44	51	-7	3,4				116%
4.1	Initial pages structure	Iacobelli		12	14	-2	3	10/10/2025	10/16/2025	7	117%
4.2	Song upload and management implementation	Iacobelli		8	8	0	3	10/18/2025	10/23/2025	6	100%
4.2	Songs presentation and interaction	Iacobelli		6	6	0	3	10/20/2025	10/26/2025	7	100%
4.4	User logic implementation	Iacobelli		8	8	0	3	10/23/2025	10/28/2025	6	100%
4.5	Following and feed implementation	Rocchi		10	15	-5	4	10/27/2025	10/28/2025	2	150%
4.6	Elastic search implementation	Cornici		5	5	0	4	10/26/2025	10/27/2025	2	100%
4.7	Song liking implementation	Rocchi		2	2	0	4	10/29/2025	10/29/2025	1	100%
4.8	Song Player	Cornici		6	6	0	4	10/29/2025	10/31/2025	3	100%
4.9	Notification system implementation	Cornici/Rocchi		4	4	0	4	10/31/2025	10/31/2025	1	100%
5	Documentation			149	163	-14	5				109%
5.1	final revision and documentation	Everyone		24	24	0	5	11/1/2025	11/10/2025	10	100%



#	No.	Module	Function Name	Description	Type	DET	RET/FTR	Complexity	FP	Remarks
1		User Management	User	Model stored to represent user accounts (artists/listeners).	ILF	7	1	Low	7	Users table (H2). DETs: ID, Email, Pass, Role, etc.
2		Song Management	Song	Model stored to represent song metadata and files.	ILF	13	1	Low	7	Songs collection (Mongo). DETs: _id, title, artistId, fileUrl, likedBy, etc.
3		Follow	Follows	Model stored to represent the follow relationship.	ILF	2	1	Low	7	USER_FOLLOWERS table (H2). DETs: follower_id, artist_id.
4		Notification	Notification	Model stored to represent user notifications.	ILF	11	1	Low	7	NOTIFICATIONS table (H2).
5		User Management	Register	(US 1) As an unregistered user, I want to create an account...	EI	4	1	Low	3	Modifies User ILF. DETs: username, email, pass, role.
6		User Management	Edit Profile	(US 2) As a registered user, I want to edit my profile...	EI	4	1	Low	3	Modifies User ILF. DETs: user_id, name, email, pass.
7		User Management	Delete Account	(US 3) As a registered user, I want to delete my account...	EI	1	3	Low	3	Modifies User, User Follows, Song ILFs (via RabbitMQ).
8		User Management	Login	(US 4) As a registered user... I want to log in...	EI	2	1	Low	3	Reads User ILF to validate. DETs: email, pass.
9		User Management	Logout	(US 5) As a registered logged-in user, I want to log out...	EI	1	1	Low	3	Modifies user session/token status.
10		Discovery	View Home Page	(US 6) ...explore the newest and most popular uploaded songs.	EO	3	1	Low	4	Reads Song ILF (via Elastic). Data is processed.
11		Follow	Follow Artist	(US 7) As a registered user, I want to follow an artist...	EI	2	1	Low	3	Modifies User Follows ILF.
12		Follow	Unfollow Artist	(US 8) As a registered user, I want to unfollow an artist...	EI	2	1	Low	3	Modifies User Follows ILF.
13		Follow	View Following Page	(US 9) ...see the artists I follow.	EQ	3	2	Low	3	Reads User Follows and User ILFs.
14		Feed	View Feed Page	(US 10) ...see the recent uploads from the artists I follow.	EO	4	2	Low	4	Reads User Follows & Song ILFs. Data is processed.
15		Notification	Get Notifications	(US 11) ...get notified when someone I follow uploads...	EQ	5	1	Low	3	Reads Notification ILF.
16		Song Management	Upload Song	(US 12) As an artist, I want to upload a song...	EI	6	1	Low	3	Modifies Song ILF. DETs: title, genre, album, files...
17		Song Management	View Uploaded Songs	(US 13) ...see the list of songs I have uploaded.	EQ	5	1	Low	3	Reads Song ILF.
18		Song Management	Delete Song	(US 14) As an artist, I want to delete one of my... songs.	EI	1	1	Low	3	Modifies Song ILF (and MinIO file).
19		Song Management	Update Song Details	(US 15) As an artist, I want to update the details of a song...	EI	6	1	Low	3	Modifies Song ILF.
20		Song Management	Get Song Details	(US 16) ...listen to a song available on the platform...	EQ	6	1	Low	3	Reads Song ILF. (Fetches data for player).
21		Song Management	Like Song	(US 17) As a registered user, I want to add a song to my favorites...	EI	2	1	Low	3	Modifies Song ILF (adds user to likedBy array).
22		Song Management	View Liked Songs	(US 18) ...see the list of my liked songs.	EQ	5	1	Low	3	Reads Song ILF (queries likedBy array).
23		Song Management	Download Song	(US 19) As a user, I want to download a song...	EO	2	1	Low	4	Reads Song ILF (gets file from MinIO).
24		Discovery	Search Songs	(US 20) ...search for songs by title, artist, or genre.	EQ	6	1	Low	3	Reads Song ILF (via Elastic).
25		User Management	View Profile Page	(US 21, 22) ...access my Profile Page / visit an artist's Profile...	EO	6	3	Medium	5	Reads User, Song, User Follows ILFs. Aggregates data.