

CPSC 449 - Back-End Engineering

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Music System Project Documentation

User Microservice :

Title	Create a new user
URL	http://127.0.0.1:5000/users
Method	POST
Request	{ "user_name": "Prerna Shastri", "password": "Plain Password", "display_name": "Prerna", "email_id": "prernaplay@test.com", "home_url": "/prerna/homeurl/" }
Response	Location : http://127.0.0.1:5000/users/Prerna%20Shastri

Title	Retrieve a single user's profile, which includes all information except the hashed password
URL	http://127.0.0.1:5000/users/<user_name>
Method	GET
Request	http://127.0.0.1:5000/users/Prerna Shastri
Response	[["Prerna Shastri", "Prerna", "prernaplay@test.com", "/prerna/homeurl/", "2019-10-16 20:03:55"]]

Title	User's microservice: Retrieve all users profiles
URL	http://127.0.0.1:5000/users

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Method	GET
Request	http://127.0.0.1:5000/users
Response	[["SwatiBade", "Swati Bade", "swati@test.com", "/swati/homeurl/", "2019-10-11 08:26:26"], ["test", "test", "test@test.com", "/test/homeurl/", "2019-10-12 23:21:21"], ["test finak", "testfinal", "testfinal@test.com", "/test/homeurl/abcdsdv/sfdfsdf", "2019-10-16 03:09:12"], ["Swati123", "SharvahriK2", "swatiiabcdn@test.com", "/swati/homeurl/", "2019-10-16 19:37:05"], ["Swatfii123", "SharfvahriK2", "swatiiabcfnd@test.com", "/swati/homeurl/", "2019-10-16 19:49:59"], ["Perna Shastri", "Perna", "pernaplay@test.com", "/perna/homeurl/", "2019-10-16 19:49:59"]]

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	"2019-10-16 20:03:55"]]
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Title	Delete a user
URL	http://127.0.0.1:5000/users/<user_name>
Method	DELETE
Request	url: http://127.0.0.1:5000/users/SwatiBade
Response	User deleted successfully

Title	Change a user's password
URL	http://127.0.0.1:5000/users
Method	PUT
Request	{ "user_name": "Prerna Shastri", "password": "Plain Password", "new_password": "New Password" }
Response	{ "new_password": "New Password", "password": "Plain Password", "user_name": "Prerna Shastri" }

Title	Users microservice: User authentication
URL	http://127.0.0.1:5000/users/auth
Method	POST
Request	{ "user_name": "Prerna Shastri", "password": "New Password" }
Response	User Authorized

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Descriptions microservice:

Title	Set a user's description of a track
URL	http://127.0.0.1:5300/descriptions
Method	POST
Request	{ "user_name": "Perna Shastri", "track_title": "Incomplete 101", "track_description": "test description for track 101" }
Response	http://127.0.0.1:5300/descriptions/Incomplete%20101/Perna%20Shastri

Title	Descriptions microservice: Retrieve a user's description of a track
URL	http://127.0.0.1:5300/descriptions
Method	GET
Request	http://127.0.0.1:5300/descriptions/Incomplete 101/Perna Shastri
Response	[["Incomplete 101", "Perna Shastri", "test description for track 101"]]

Tracks microservice:

Title	Create a new track
URL	http://127.0.0.1:5100/tracks
Method	POST

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Request	{ "track_title": "freebird", "album_title": "Southern by the Grace of God" , "track_artist": "Lynyrd Skynyrd", "track_length": "1000" , "media_url": "test/test/testTrackTitle.mp3" , "album_url": "" }
Response	Location: http://127.0.0.1:5100/tracks/freebird

Title	Retrieve a single track
URL	http://127.0.0.1:5100/tracks/<title>
Method	GET
Request	http://127.0.0.1:5100/tracks/freebird
Response	[{ "album_title": "Southern by the Grace of God", "album_url": "", "created_date": "2019-10-16 21:27:33", "media_url": "test/test/testTrackTitle.mp3", "track_artist": "Lynyrd Skynyrd", "track_length": 1000, "track_title": "freebird" }]

Title	Retrieve all tracks
URL	http://127.0.0.1:5100/tracks
Method	GET
Request	http://127.0.0.1:5100/tracks
Response	[{ "album_title": "album change name", "album_url": "", "created_date": "2019-10-09 22:53:41", "media_url": "//home/change/media/url/asd.mp3", "track_artist": "artist 001", }]

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	<pre>"track_length": 800, "track_title": "trackChange 005" }, { "album_title": "newtestalbum", "album_url": "/test/album", "created_date": "2019-10-12 23:46:36", "media_url": "/test/new/media", "track_artist": "testartist", "track_length": 800, "track_title": "newtracktitale" }, { "album_title": "Incomplete", "album_url": "", "created_date": "2019-10-14 23:20:25", "media_url": "home/songs/BackStreetBoys/incomplete.mp3", "track_artist": "Backstreet Boys", "track_length": 800, "track_title": "Incomplete" }, { "album_title": "Incomplete 50", "album_url": "", "created_date": "2019-10-14 23:24:20", "media_url": "home/songs/BackStreetBoys/incomplete50.mp3", "track_artist": "BackstreetGirls", "track_length": 800, "track_title": "Incomplete 50" }, { "album_title": "Incomplete 30", "album_url": "", "created_date": "2019-10-14 23:28:11", "media_url": "home/songs/BackStreetBoys/incomplete50333.mp3", "track_artist": "BackstreetGirls3333", "track_length": 800, "track_title": "Incomplete 30" }, { "album_title": "Incomplete 45", "album_url": "", "created_date": "2019-10-14 23:57:20",</pre>
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	<pre>"media_url": "home/songs/BackStreetBoys/incomplete455533.mp3", "track_artist": "BackstreetGirls45453", "track_length": 800, "track_title": "Incomplete 45" }, { "album_title": "Incomplete 100", "album_url": "", "created_date": "2019-10-16 02:46:39", "media_url": "home/songs/BackStreetBoys/incomplete455533100.mp3", "track_artist": "BackstreetGirls45100", "track_length": 800, "track_title": "Incomplete 100" }, { "album_title": "Incomplete 101", "album_url": "", "created_date": "2019-10-16 02:49:42", "media_url": "home/songs/BackStreetBoys/incomplete4555331001.mp3", "track_artist": "BackstreetGirls45101", "track_length": 800, "track_title": "Incomplete 101" }, { "album_title": "Southern by the Grace of God", "album_url": "", "created_date": "2019-10-16 21:27:33", "media_url": "test/test/testTrackTitle.mp3", "track_artist": "Lynyrd Skynyrd", "track_length": 1000, "track_title": "freebird" }]</pre>
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Title	Edit a track
URL	http://127.0.0.1:5100/tracks
Method	PUT

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Request	{ "track_title":"In", "new_track_title":"Evena", "new_album_title":"Southern Soul" , "new_track_artist":"Helen Kem", "track_length":"1000" , "media_url":"test/test/testTrackTitle.mp3" , "album_url":"" }
Response	Record Updated

Title	Delete a track
URL	http://127.0.0.1:5100/tracks/In
Method	DELETE
Request	{ "track_title":"In", "new_track_title":"Evena", "new_album_title":"Southern Soul" , "new_track_artist":"Helen Kem", "track_length":"1000" , "media_url":"test/test/testTrackTitle.mp3" , "album_url":"" }
Response	Track deleted successfully

Playlists microservice:

Title	Create a new playlist
URL	http://127.0.0.1:5200/playlists
Method	POST
Request	{ "playlist_title":"Spanish songs", "user_name":"Prerna Shastri", "description":"description for track 80", "track_title":"Despacito" }
Response	Location http://127.0.0.1:5200/playlistsbyuser/Prerna%20Shastri

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Title	Retrieve a playlist
URL	http://127.0.0.1:5200/playlists/<playlist_id>
Method	GET
Request	http://127.0.0.1:5200/playlists/26
Response	[["Justin Bieber", "American songs", "2019-10-16 22:26:22"]]

Title	Delete a playlist
URL	http://127.0.0.1:5200/playlists/<playlist_title>
Method	DELETE
Request	http://127.0.0.1:5200/playlists/Spanish songs
Response	Playlist deleted successfully

Title	List all playlists
URL	http://127.0.0.1:5200/playlists
Method	GET
Request	http://127.0.0.1:5200/playlists
Response	[[25, "Spanish songs", "Madhura Jog", "2019-10-16 22:15:58"], [26, "American songs", "Justin Bieber",]]

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	"2019-10-16 22:26:22"]]
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Title	List playlists created by a particular user
URL	http://127.0.0.1:5200/playlistsbyuser/<user_name>
Method	GET
Request	http://127.0.0.1:5200/playlistsbyuser/Prerna Shastri
Response	[[27, "Spanish songs", "description for track 80", "2019-10-16 23:07:33"]]