Function	Input	Processing	Output
Register	First Name, Last Name, Username, Email, Password	1. Check for duplicate email. 2. Save first name, last name, username, email, and hashed password in the database. 3. Send autogenerated password to the registered email.	Registration successful/User Already Exists.
Login	Email, Password	Verify email and password combination in the database.	Redirected to main page/Invalid Credentials. Please try again.
Forgot Password	Email Address	1. Check if the email exists in the database. 2. If exists, send a reset password to the email.	Password has been sent to your email/Email is required.
Reset Password	Old Password, New Password, Confirm Password	1. Verify old password. 2. Validate and save the new encrypted password in the database.	Password reset successful/Something went wrong. Please try again.
Set Availability	Toggle (Active/Inactive)	Update the availability status in the database.	Profile details updated.

Search Artists	Username, First Name, Last Name, Skills, Email, Location	Query the database with filters such as username, first name, last name, skills, email, and location.	Display list of matching artists/No Data.
Create Self Post	Media, Status	Save post media and status in the database.	Post created successfully.
View Notifications	User ID/Group ID	Fetch notifications for the user or group from the database.	Display notifications.
Individual Collab Request	Artist sends a collaboration request by clicking on "Request Collab" in the profile	1. Save the collab request details (sender, receiver, message) in the database. 2. Notify the respective artist about the request. 3. Artist can accept or reject the request. 4. Update the request status accordingly.	Accepted: Collabed Rejected: Request Collab
Create Collab Post	Media, Status	1. Save post media and status in the database. 2. Create an associated group and assign the user as Admin.	Post created successfully.
Create Event Post	Title, Start Date, End Date, Status	Save event title, start date, end date, and status in the database.	Post created successfully.