



Task Analysis Report

JIRA APPLICATION

User Data Management

Jira Applications
User Registration
Profile Creation
Task Creation and Assignment
Time Tracking

Main Entities
Users
Tasks
Time Entries
Profile Pictures

Users
user_id (Primary Key)
username
email
password

Tasks
task_id (Primary Key)
task_name
description
assigned_to (Foreign Key to Users)
status

Time Entries
entry_id (Primary Key)
task_id (Foreign Key to Tasks)
user_id (Foreign Key to Users)
start_time
end_time

Profile Pictures
picture_id (Primary Key)
Member accesses the assigned task
user_id (Foreign Key to Users)
file_path

User Registration
User launches Jira Application
User selects "Register" option
User enters personal details (name, email, password)
System validates and creates a new user account

Profile Creation
User logs into Jira Application
User accesses "Profile" settings
User uploads profile picture
User updates bio and contact information
Changes are saved to the profile

Task Creation and Assignment
User logs into Jira Application
User creates a new task
User specifies task details (title, description, deadline, etc.)
User assigns the task to a team member
System notifies the assigned member

Time Tracking
Assigned member logs into Jira Application
Member accesses the assigned task
Member starts a timer
Member pauses or stops the timer
Tracked time is recorded and linked to the task

Connections between Tables
Users and Tasks (One-to-Many)
Users and Time Entries (One-to-Many)
Users and Profile Pictures (One-to-One)
Tasks and Time Entries (One-to-Many)

Media Folder Structure
Create a folder for profile pictures
Implement a naming convention for media files
Store media file paths in the database

Error Scenarios and Edge Cases
Invalid registration data
Profile picture upload failure
Task assignment to a non-existent user
Timer malfunction during time tracking