



Database Systems Project Proposal & Documentation

Group Members:

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Problem Domain: Game Management System at a game retail store.

Problem Statement

Every retail store requires a database system to store different types of records of the items they are selling. Game Retail Shops uses a management system where they store all details about each and every game they sell.

Problem Solution

In this project, we will design a Game Management Database System that will resolve this problem and can be modified (Add / Remove) games and change game details as well from the database system.

Motivation of the Project

We have interest in games and enjoy playing and have experience in the domain of games. Therefore, we chose “Game Management Database System” as our project.

Learning Outcomes from our Project

We will be able to design and create a Database System and create different tables with different attributes. Learning how to Add, Remove and Change.

Tools and Technologies

We will use Oracle (Version 11g) & SQL Developer for the implementation of our project.

Game

GameID	GameTitle	GameDescription	Developer	Publisher	Platform	IGN Rating	Release Year	Genre
G-8898	Genshin impact	Lorem Ipsum...	D-0091	P-9090	PC	9/10	2020	Adventure
G-1123	Stray	Lorem Ipsum...	D-1120	P-9981	PC	8/10	2022	Simulation
G-2021	Hitman	Lorem Ipsum...	D-1111	P-5565	PC	8/10	2016	Stealth
G-8987	FIFA 2022	Lorem Ipsum...	D-0012	P-0506	PC	7/10	2021	Sports

Developer

DeveloperID	DeveloperTitle
D-0091	HoYoverse
D-1120	BlueTwelve Studio
D-1111	IO Interactive
D-0012	Electronic Arts

Publisher

PublisherID	PublisherTitle
P-9090	HoYoverse
P-9981	Annapurna Interactive
P-5565	Square Enix
P-0506	Electronic Arts

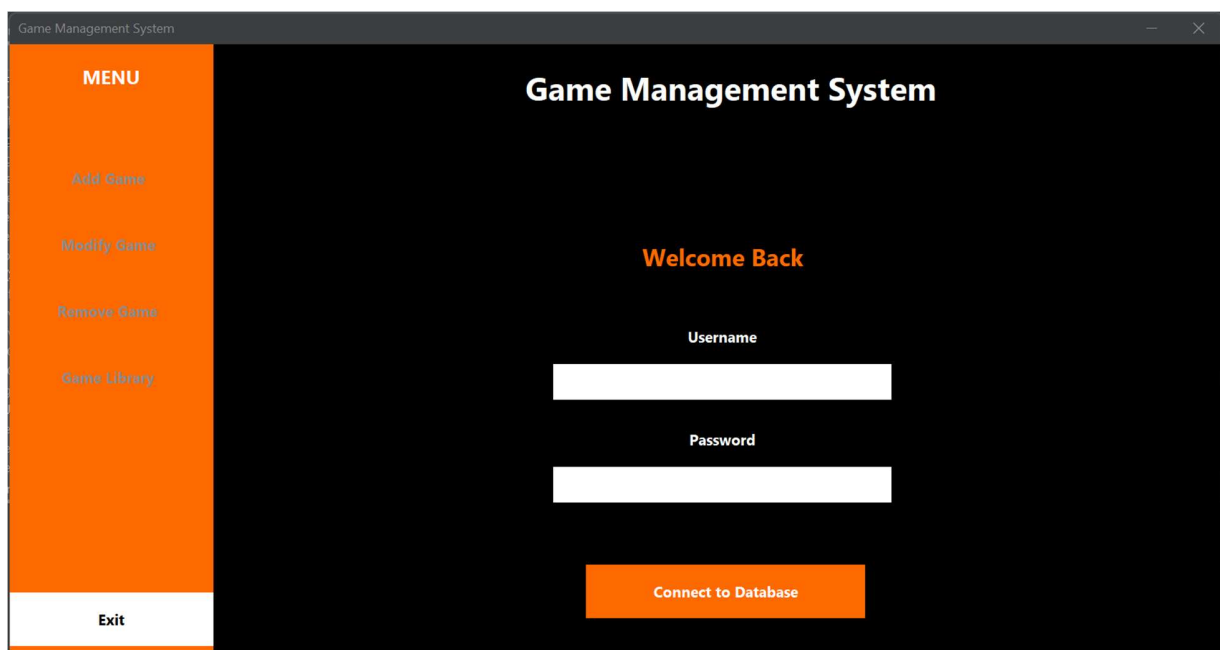
Overview

We developed a Program that completes all requirements to be a Game Management System on Java with a Graphical User Interface (GUI). The admin can login and then select one of the options from the side menu to perform that task for example 'Add Game' etc.

We Have used Oracle 11g Database to design the database and store all the records of different games.

Screenshots

Home



Add Game

The screenshot shows the 'Add Game' form within the 'Game Management System' application. The interface has a dark theme with an orange sidebar on the left. The sidebar contains a 'MENU' section with the text 'Logged in as gms_admin' and five options: 'Add Game' (highlighted in orange), 'Modify Game', 'Remove Game', 'Game Library', and 'Exit'. The main content area has a title 'Game Management System' and a form with the following fields: 'Game ID', 'Game Title', 'Game Description', 'Developer ID', 'Publisher ID', 'Platform(s)', 'IGN Rating', 'Release Year', and 'Genre'. Each field is represented by a white text input box. At the bottom right of the form is an orange button labeled 'Confirm & Add Game'.

Modify Game

The screenshot shows the 'Modify Game' form within the 'Game Management System' application. The interface is identical to the 'Add Game' form, but the 'MENU' sidebar has 'Modify Game' highlighted in orange. The main content area has the same title 'Game Management System' and the same set of input fields: 'Game ID', 'Game Title', 'Game Description', 'Developer ID', 'Publisher ID', 'Platform(s)', 'IGN Rating', 'Release Year', and 'Genre'. At the bottom right of the form is an orange button labeled 'Confirm & Modify Game'.

Remove Game

Game Management System

MENU
Logged in as gms_admin

Add Game

Modify Game

Remove Game

Game Library

Exit

Game Management System

Game ID

Confirm & Remove Game

Game Library

Game Management System

MENU
Logged in as gms_admin

Add Game

Modify Game

Remove Game

Game Library

Exit

Game Management System

GAMEID	GAMETITLE	GAMEDESCRIP...	DEVELOPERTITLE	PUBLISHERTITLE	PLATFORM	IGNRATING	RELEASEYEAR	GENRE
G-9901	Genshin Imp...	Genshin Imp...	HoYoverse	HoYoverse	Windows, Pl...	9/10	2020	Adventure, R...
G-1025	The Last of Us	The Last of ...	Naughty Dog	Sony Interac...	PC, Playstati...	10/10	2013	Shooter, Sur...
G-9012	Stray	Stray is a 20...	BlueTwelve ...	Annapurna I...	Windows, Pl...	8/10	2022	Adventure, L...

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