



# Carlos Hilado Memorial State University

Alijis Campus • Binalbagan Campus • Fortune Towne Campus • Talisay (Main) Campus

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*(Good governance, Research-oriented, Extension-driven, Education for Sustainable Development, and Nation-building)*

## College of Computer Studies

### "AZURION RHYTHM GAME MANAGEMENT SYSTEM"

A Database System Design Project

*Submitted in Partial Fulfillment of the Requirements for*  
ITIMT (Information Management) and for the program of  
**BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY**  
Carlos Hilado Memorial State University – Alijis Campus

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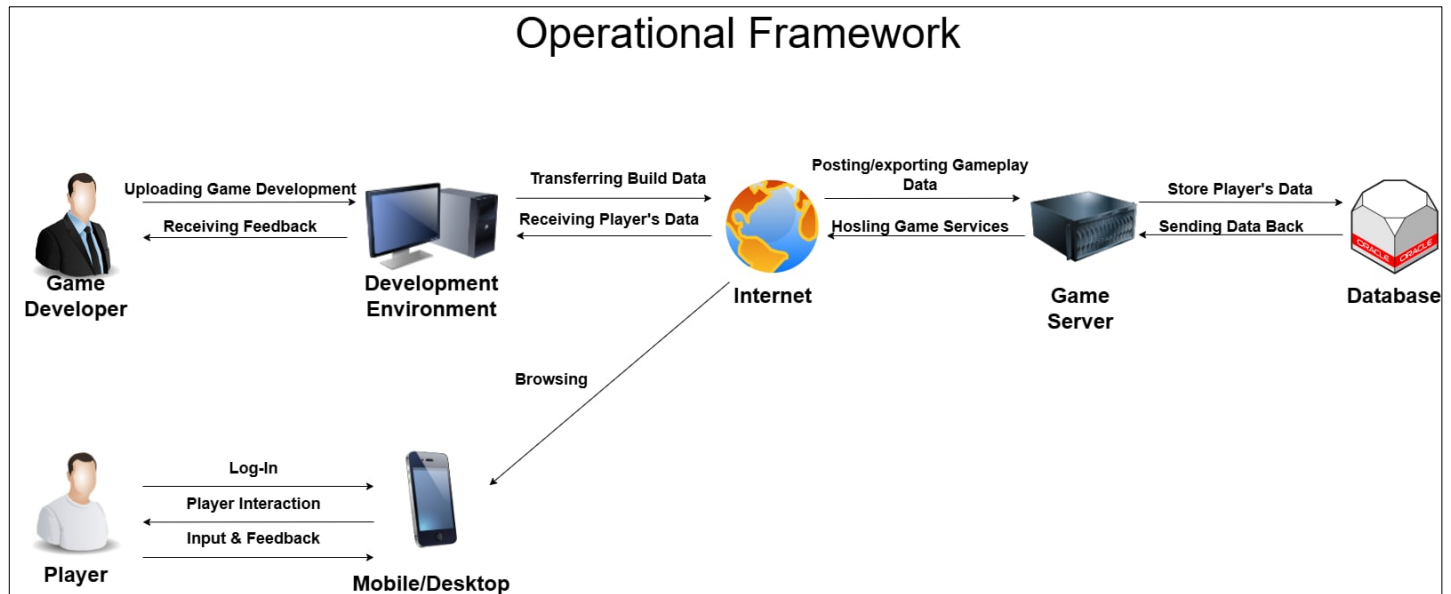
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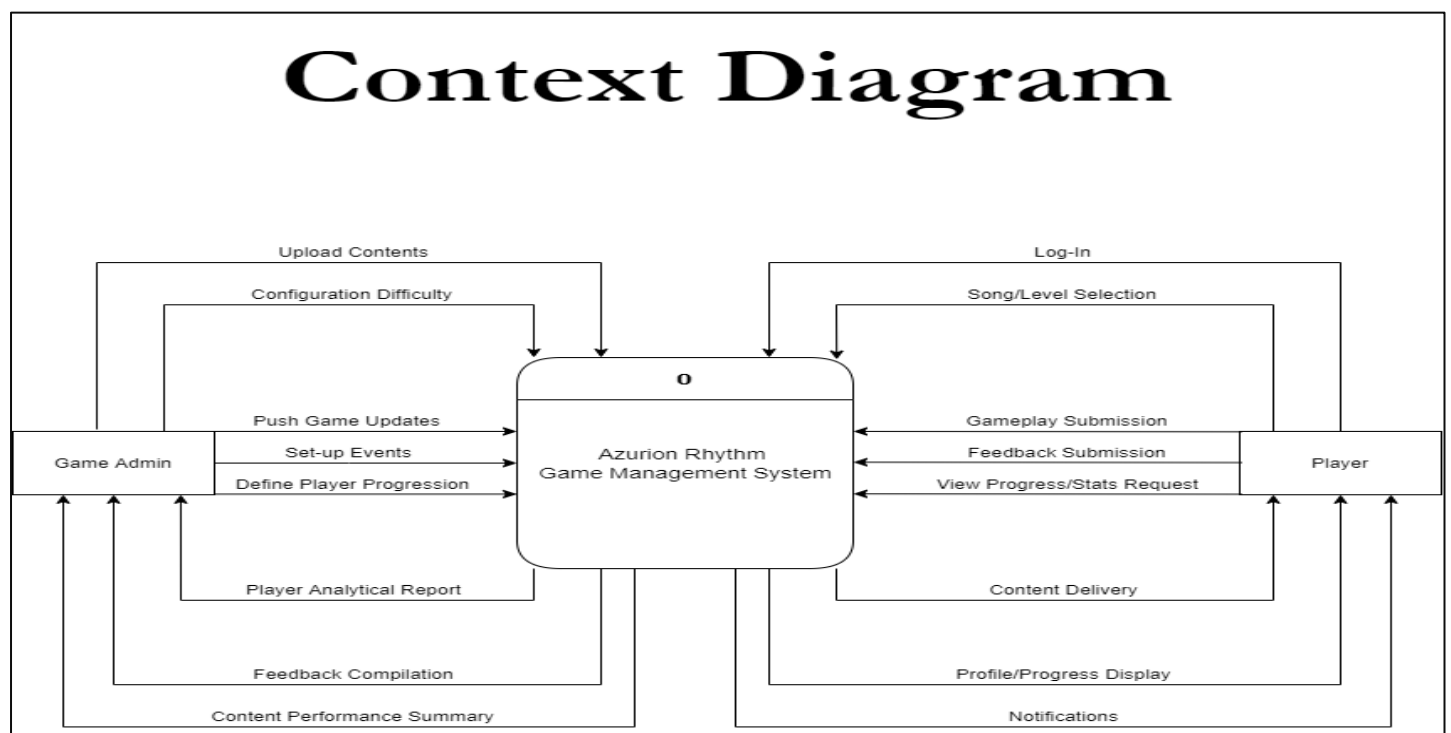
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### Operational Framework



### Context Diagram





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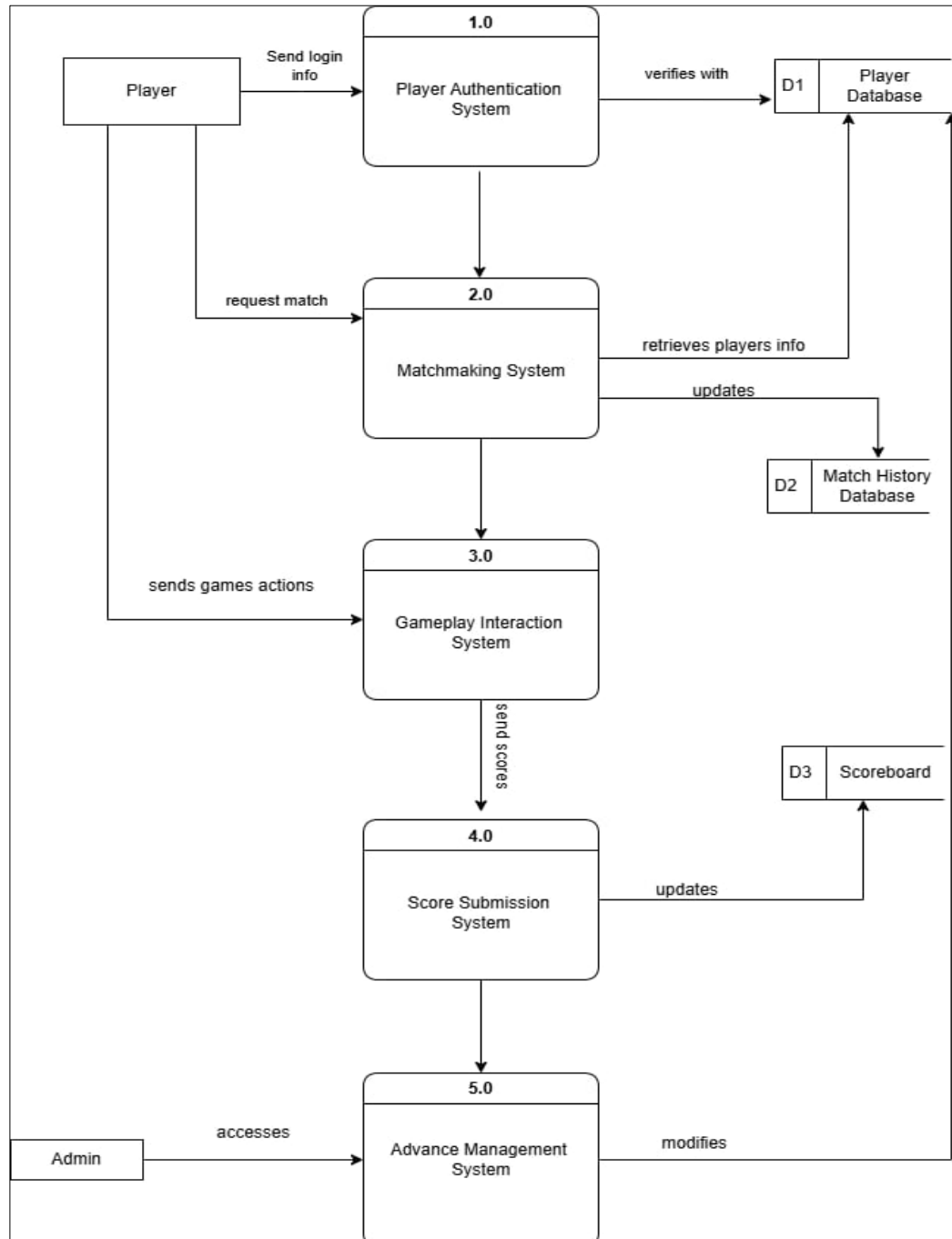
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### Data Flow Diagram





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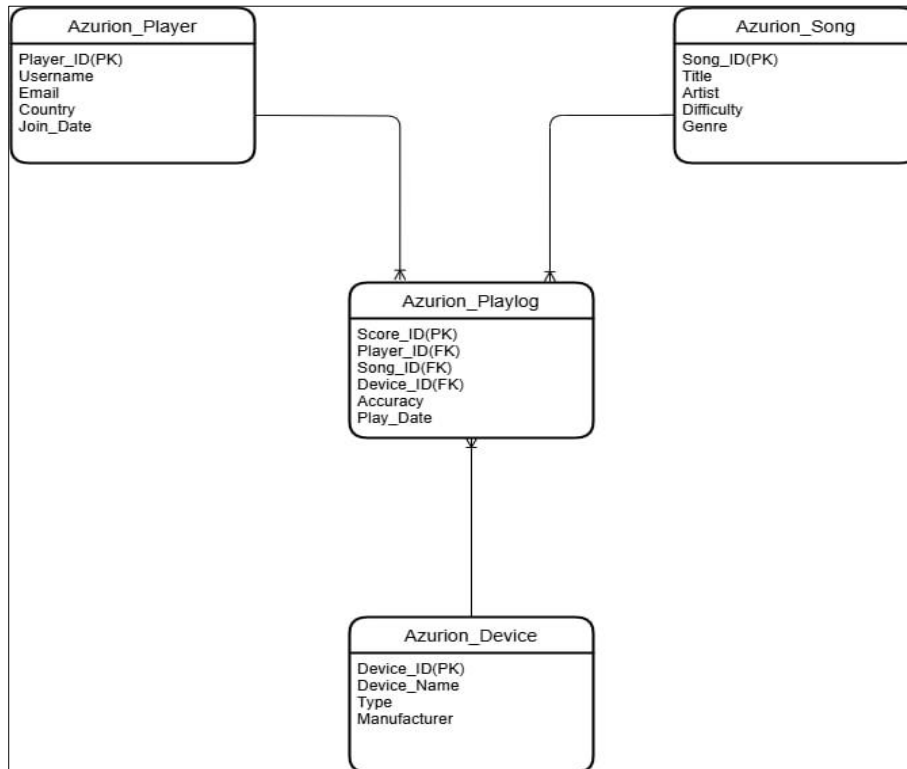
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### Entity Relationship Diagram



### Data Dictionary

#### Player Table

Field Name	Type	Length	Description
Player_id	Int	11	Unique player ID
Username	Varchar	50	Player's display name
Email	Varchar	100	Contact email
Join_date	Date	-	When the player joined



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Songs Table

Field Name	Type	Length	Description
Songs_id	Int	11	Unique player for song
Title	Varcha r	50	Song title
Artist	Varcha r	100	Artist or Creator
Bpm	Float	-	Beats per minute
Audio_file	Varcha r	225	File path or URL to audio
Difficulty	Varcha r	50	e.g. Easy, Medium, Hard

GameSessions Table

Field Name	Type	Length	Description
Session_id	Int	11	Unique game session ID
Player_id	Int	11	Linked to Player.player_id
song_id	Int	11	Linked to Songs.song_id
score	Int	-	Player score for the session
accuracy	Float	-	Hit accuracy percentage
Combo_max	Int	-	Highest combo in this session
Session_time	Varchar	-	When the session took place



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TimeLog Table

Field Name	Type	Length	Description
log_id	Int	11	Unique log entry
Player_id	Int	11	Linked to Player.player_id
login_time	Timestamp	-	Time the player logged in
logout_time	Timestamp	-	Time the player logged out
Session_id	Int	11	Related to GameSessions.session_id

GameModerator Table

Field Name	Type	Length	Description
moderator_id	Int	11	Unique moderator ID
username	Varchar	11	Moderator username
email	Varchar	11	Contact email
role	Varchar	-	e.g Admin, Chart Reviewer
Date_joined	Date	-	Date moderator joined the team



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## Use Case Diagram

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