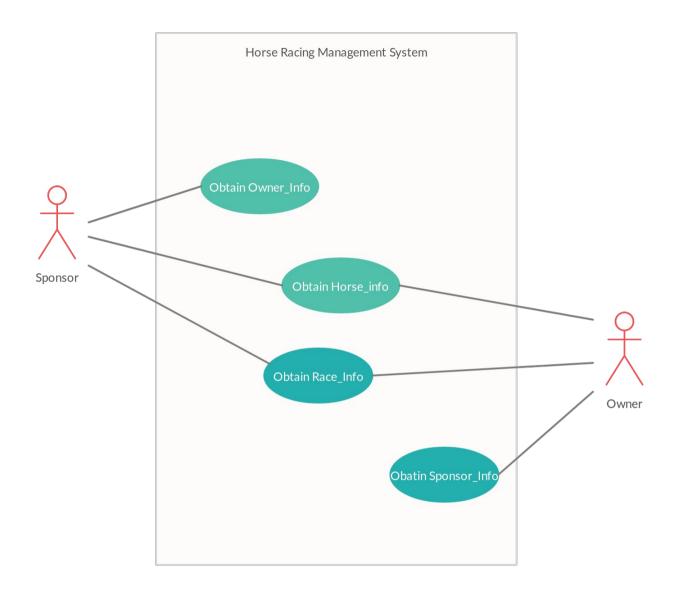
Project Analysis and Design Document

1.Use Case Diagram



2.Use Case Description

Use Case Id: 0001

Use Case Name: Obtain Owner_Info

Description: Gives detailed information about the different horse owners.

Actors: Sponsor

Normal Flow: The actor indicates that he wants information about the different horse owners.

So the system loads this information from it's database.

Use Case Id: 0002

Use Case Name: Obtain Sponsor_Info

Description: Gives detailed information about the different sponsors.

Actors: Owner

Normal Flow: The actor indicates that he wants information about the different sponsors.

So the system loads this information from it's database.

Use Case Id: 0003

Use Case Name: Obtain Horse_Info

Description: A table is returned which has information about each horse that has been registered. More specifically, each record contains details about the physical conditions, corresponding owner, sponsor and basic race stats.

Actors: Sponsor,Owner

Normal Flow: The actor indicates that he wants information about each horse.

So the system loads this information from it's database.

Use Case Id: 0004

Use Case Name: Obtain Race_Info

Description: A table is returned where each record has finer details about the racing track,

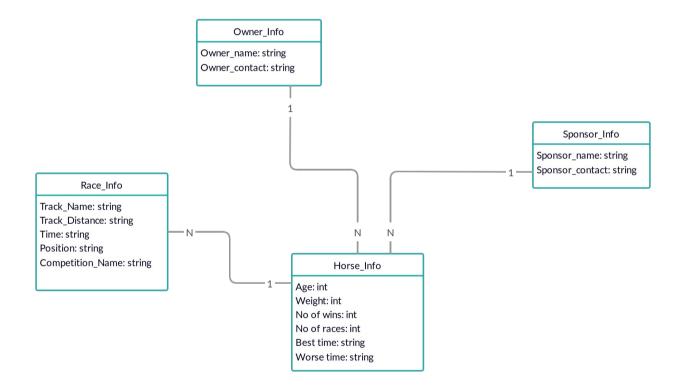
time and position of a particular horse.

Actors: Sponsor,Owner

Normal Flow: The actor indicates that he wants racing information.

So the system loads this information from it's database.

3. UML class Diagram:



4. Relational Tables:

Table Name: Owner Info

Name of Column	Data Type	Constraints
Owner_Info_Id	string	PK,surrogate
Owner_name	string	
Owner_contact	string	

Table Name: Sponsor_Info

Name of Column	Datatype	Constraints
Sponsor_Info_Id	string	PK,surrogate
Sponsor_name	string	
Sponsor_Contact	string	

Table Name: Horse_Info

Name of Column	Datatype	Constraints
Horse_Info_Id	string	PK,surrogate
Owner_id	string	FK references Owner_Info_Id,NOT NULL
Sponsor_id	string	FK references Sponsor_Info_Id,NULL
Age	int	
Weight	int	
No of wins	int	
No of races	int	
Best Time	string	
Worse Time	string	

Table Name:Race_Info

Name of column	Datatype	Constraints
Race_Info_Id	string	PK,surrogate
Horse_Id	string	FK references Horse_Info_Id,NOT NULL
Track_Name	string	
Track_Distance	string	
Time	string	
Position	string	
Competiton_Name	string	

Pictures of different functionalities:

Note:display_owners,display_sponsors,display_horses,display_races only display the primary keys of their respective tables to minimize the amount of columns that appear on the screen.

