LAB WORK – 10

Identify the classes. Classify them as weak and strong Study. classes and draw the class diagram for the specified Case

Let's identify some key classes for an online quiz application

Classes of Quiz Management System Class Diagram:

- **Quiz Class** : Manage all the operations of Quiz
- **Participate Class** : Manage all the operations of Participate
- **Score Class** : Manage all the operations of Score
- **Academic Class** : Manage all the operations of Academic
- **Winner Class** : Manage all the operations of Winner
- **Prize Class** : Manage all the operations of Prize

Classes and their attributes of Quiz Management System Class Diagram:

- **Quiz Attributes** : quiz_id, quiz_name, quiz_type, quiz_description
- **Participate Attributes** : participatnt_id, participatnt_name, participatnt_mobile, participatnt_email, participatnt_username, participatnt_password, participatnt_address
- **Score Attributes** : score_id, score_name, score_total, score_type, score_description
- **Academic Attributes** : academic_id, academic_name, academic_type, academic_description
- **Winner Attributes** : winner_id, winner_name, winner_mobile, winner_email, winner_username, winner_password, winner_address
- **Prize Attributes** : prize_id, prize_winner_Id, prize_name, prize_type, prize_description

Classes and their methods of Quiz Management System Class Diagram:

- **Quiz Methods** : addQuiz(), editQuiz(), deleteQuiz(), updateQuiz(), saveQuiz(), searchQuiz()
- **Participate Methods** : addParticipate(), editParticipate(), deleteParticipate(), updateParticipate(), saveParticipate(), searchParticipate()
- **Score Methods** : addScore(), editScore(), deleteScore(), updateScore(), saveScore(), searchScore()
- **Academic Methods** : addAcademic(), editAcademic(), deleteAcademic(), updateAcademic(), saveAcademic(), searchAcademic()
- **Winner Methods** : addWinner(), editWinner(), deleteWinner(), updateWinner(), saveWinner(), searchWinner()
- **Prize Methods** : addPrize(), editPrize(), deletePrize(), updatePrize(), savePrize(), searchPrize()

Class Diagram Image:

Role Class
- +role_id: int
- +role_title: string
- +role_description: string
- +addRole()
- +editRole()
- +deleteRole()
- +searchRole()
- +assignRole()

Permission Class
- +permission_id: int
- +permission_role_id: int
- +permission_title: string
- +permission_module: string
- +permission_description: string
- +addPermission()
- +editPermission()
- +deletePermission()
- +searchPermission()

Score Class
- +score_id: int
- +score_description: string
- +score_type: string
- +score_name: string
- +score_total: string
- +addScore()
- +editScore()
- +deleteScore()
- +searchScore()

User Class
- +user_id: int
- +user_role_id: int
- +user_name: string
- +user_email: string
- +user_dob: date
- +user_address: string
- +addUser()
- +editUser()
- +deleteUser()
- +searchUser()

Participants Class
- +participant_id: int
- +participant_name: string
- +participant_mobile: string
- +participant_email: string
- +participant_address: string
- +participant_username: string
- +participant_password: string
- +addParticipants()
- +editParticipants()
- +deleteParticipants()
- +searchParticipants()

Quiz Class
- +quiz_id: int
- +quiz_name: string
- +quiz_type: string
- +quiz_description: string
- +addQuiz()
- +editQuiz()
- +deleteQuiz()
- +searchQuiz()

Prize Class
- +prize_id: int
- +prize_name: string
- +prize_type: string
- +prize_description: string
- +prize_winner_id: int
- +addPrize()
- +editPrize()
- +deletePrize()
- +searchPrize()

Academic Class
- +academic_id: int
- +academic_name: string
- +academic_description: string
- +academic_type: string
- +addAcademic()
- +editAcademic()
- +deleteAcademic()
- +searchAcademic()