Package model;

Import java.util.List;

Public class User {

Private int id;

Private String name;

Private String email;

Private String password;

Private String role; // “admin” or “participant”

Private int totalScore; // Cumulative score across quizzes

Private List<Integer> attemptedQuizIds; // List of quiz IDs attempted by the user

// Default Constructor

Public User() {

}

// Constructor for creating a participant

Public User(String name, String email, String password) {

This.name = name;

This.email = email;

This.password = password;

This.role = “participant”; // Default role

This.totalScore = 0; // Initialize score

}

// Constructor for admin or specific user roles

Public User(String name, String email, String password, String role) {

This.name = name;

This.email = email;

This.password = password;

This.role = role;

}

// Constructor with ID (useful for retrieval from a database)

Public User(int id, String name, String email, String password, String role) {

This.id = id;

This.name = name;

This.email = email;

This.password = password;

This.role = role;

}

// Getters and Setters

Public int getId() {

Return id;

}

Public void setId(int id) {

This.id = id;

}

Public String getName() {

Return name;

}

Public void setName(String name) {

This.name = name;

}

Public String getEmail() {

Return email;

}

Public void setEmail(String email) {

This.email = email;

}

Public String getPassword() {

Return password;

}

Public void setPassword(String password) {

This.password = password;

}

Public String getRole() {

Return role;

}

Public void setRole(String role) {

This.role = role;

}

Public int getTotalScore() {

Return totalScore;

}

Public void setTotalScore(int totalScore) {

This.totalScore = totalScore;

}

Public List<Integer> getAttemptedQuizIds() {

Return attemptedQuizIds;

}

Public void setAttemptedQuizIds(List<Integer> attemptedQuizIds) {

This.attemptedQuizIds = attemptedQuizIds;

}

// Add a quiz ID to the attempted list

Public void addAttemptedQuizId(int quizId) {

If (!attemptedQuizIds.contains(quizId)) {

attemptedQuizIds.add(quizId);

}

}

// Update the total score after a quiz

Public void updateScore(int score) {

This.totalScore += score;

}

@Override

Public String toString() {

Return “User [id=” + id + “, name=” + name + “, email=” + email +

“, role=” + role + “, totalScore=” + totalScore +

“, attemptedQuizIds=” + attemptedQuizIds + “]”;

}

}