American International University-Bangladesh (AIUB)

Department of Computer Science

Faculty of Science & Technology (FST)

One Touch Renting and Riding System

A Software Engineering Project Submitted
By

Semester: Fall 2022-23		Section: B	Group Number: 7	
SN	**Student Name**	**Student ID**	**Contribution (CO1+CO2)**	**Individual Marks**
1	Bhuiyan, Fahim Mahmud	20-42970-1		
2	Basak, Shanto Kumar	20-42945-1		
3	Tanzin, Effat Ara	20-42000-1		
4	Mahin, Mosaddek Hossain	20-43905-2		
5	Maliyat, Muntaqa	20-43248-1		

The project will be evaluated for the following Course Outcomes

CO1: *Analyze* the impact of software engineering models over various contexts of software development to assess societal, health, safety, legal and cultural issues.	Total Marks
Project Background Analysis and feasibility (needs, goal, benefits, etc.)	[5Marks]
Analysis of the impact of societal, health, safety, legal and cultural issues	[5Marks]
Review of existing Studies and Relevant Examples	[5Marks]
CO2: *Explain* appropriate software engineering model, project management roles, and their skills in the context of professional engineering practice and solutions to complex engineering problems in a software development environment.	Total Marks
Appropriate Process Model Selection and Argumentation with Evidence	[5Marks]
Evidence of Argumentation regarding process model selection	[5Marks]
Submission, Defense, Completeness, Spelling, grammar, and Organization of the Project report	[5Marks]

System Diagram against the Specification:
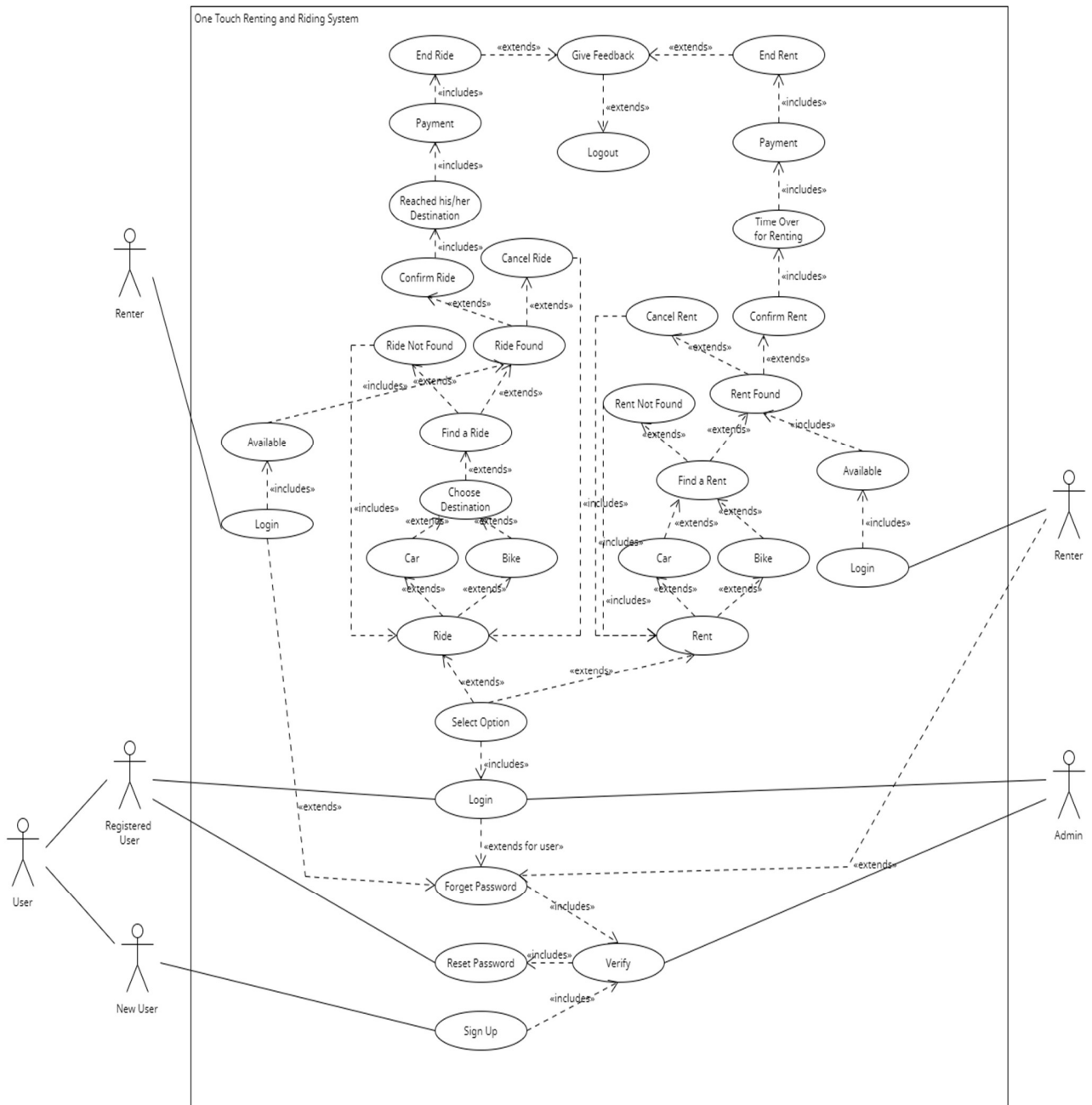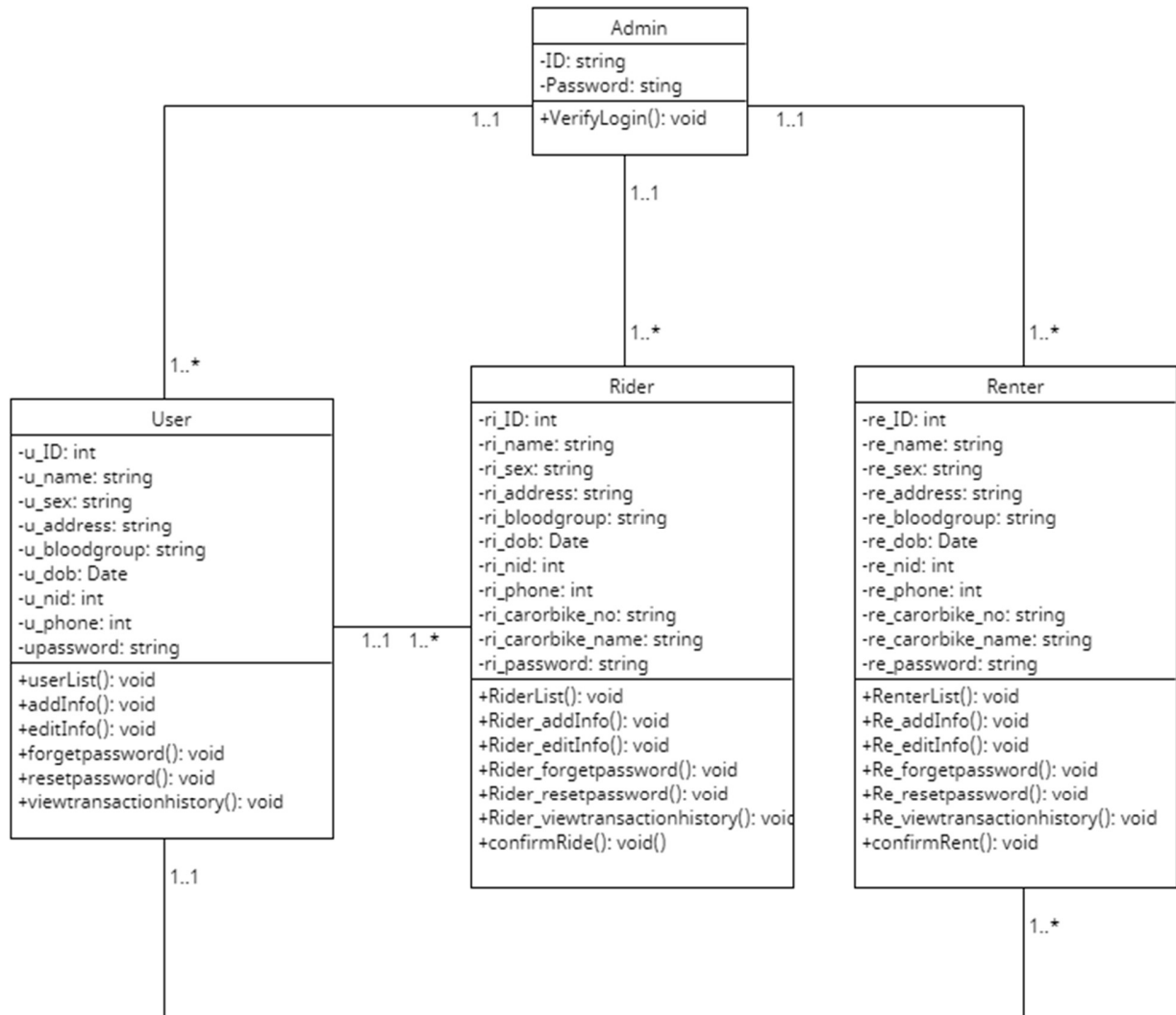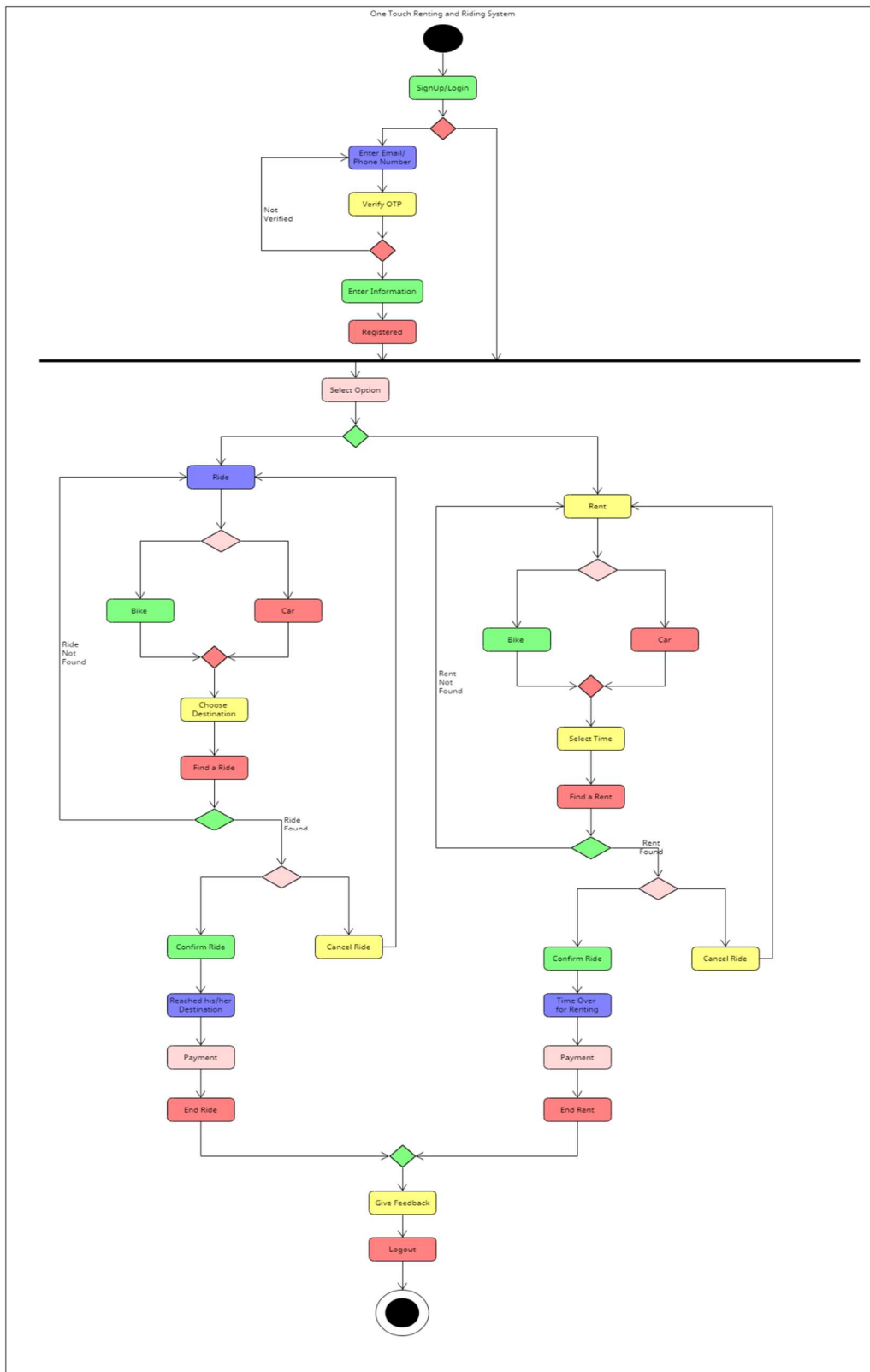
i.   Use Case Diagram:

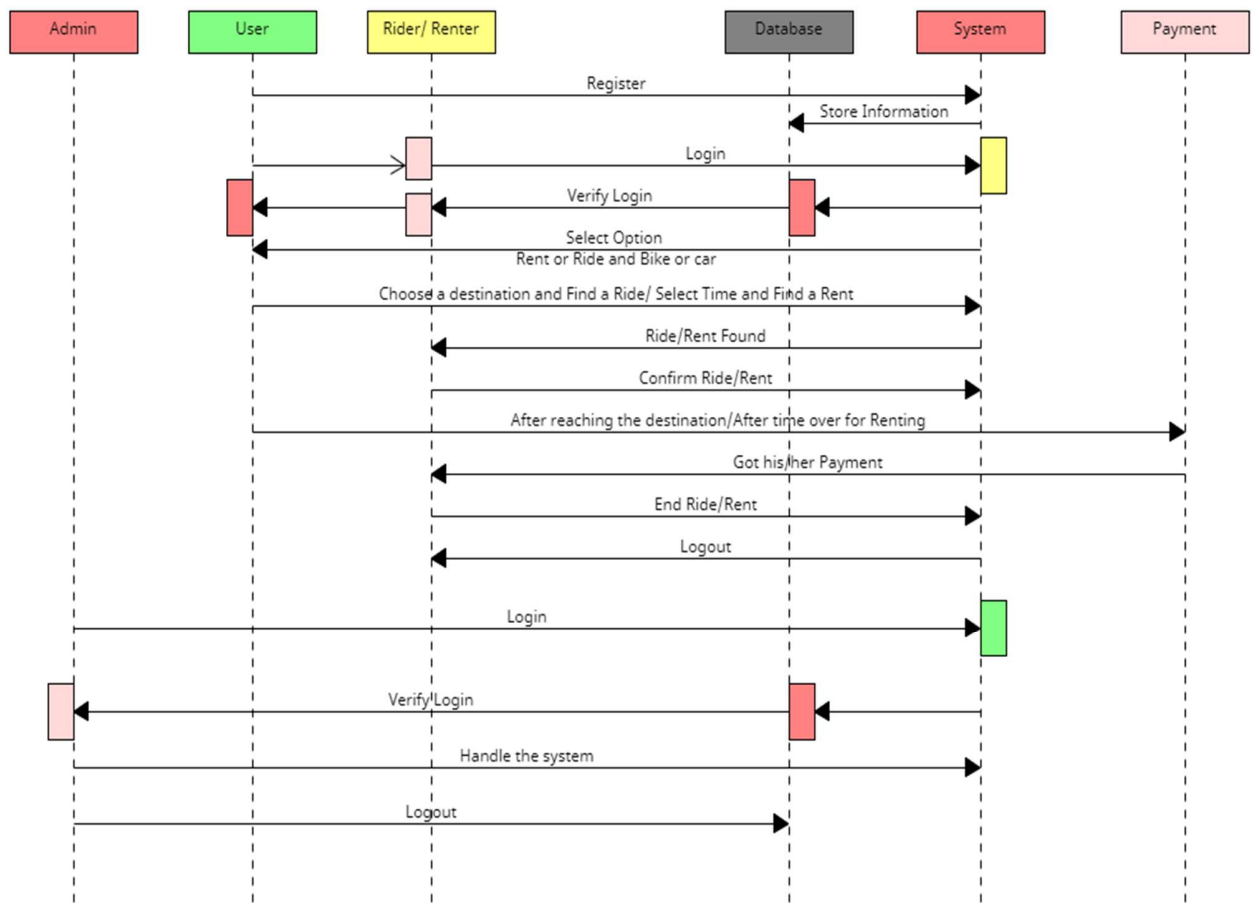
Figure: Use Case Diagram

ii.   Class Diagram:

Admin
-ID: string
-Password: sting
+VerifyLogin(): void

1..1   1..1   1..1   1..*   1..*   1..*   1..*   1..1

User
-u_ID: int
-u_name: string
-u_sex: string
-u_address: string
-u_bloodgroup: string
-u_dob: Date
-u_nid: int
-u_phone: int
-upassword: string
+userList(): void
+addInfo(): void
+editInfo(): void
+forgetpassword(): void
+resetpassword(): void
+viewtransactionhistory(): void

1..1   1..*

Rider
-ri_ID: int
-ri_name: string
-ri_sex: string
-ri_address: string
-ri_bloodgroup: string
-ri_dob: Date
-ri_nid: int
-ri_phone: int
-ri_carorbike_no: string
-ri_carorbike_name: string
-ri_password: string
+RiderList(): void
+Rider_addInfo(): void
+Rider_editInfo(): void
+Rider_forgetpassword(): void
+Rider_resetpassword(): void
+Rider_viewtransactionhistory(): void
+confirmRide(): void()

Renter
-re_ID: int
-re_name: string
-re_sex: string
-re_address: string
-re_bloodgroup: string
-re_dob: Date
-re_nid: int
-re_phone: int
-re_carorbike_no: string
-re_carorbike_name: string
-re_password: string
+RenterList(): void
+Re_addInfo(): void
+Re_editInfo(): void
+Re_forgetpassword(): void
+Re_resetpassword(): void
+Re_viewtransactionhistory(): void
+confirmRent(): void

Figure: Class Diagram

iii. Activity Diagram:

One Touch Renting and Riding System

SignUp/Login

Enter Email/ Phone Number

Not Verified

Verify OTP

Enter Information

Registered

Select Option

Ride

Bike

Car

Ride Not Found

Choose Destination

Find a Ride

Ride Found

Confirm Ride

Cancel Ride

Reached his/her Destination

Payment

End Ride

Rent

Bike

Car

Rent Not Found

Select Time

Find a Rent

Rent Found

Confirm Ride

Cancel Ride

Time Over for Renting

Payment

End Rent

Give Feedback

Logout

iv.   Sequence Diagram:

Figure: Sequence Diagram

v.   ER Diagram:
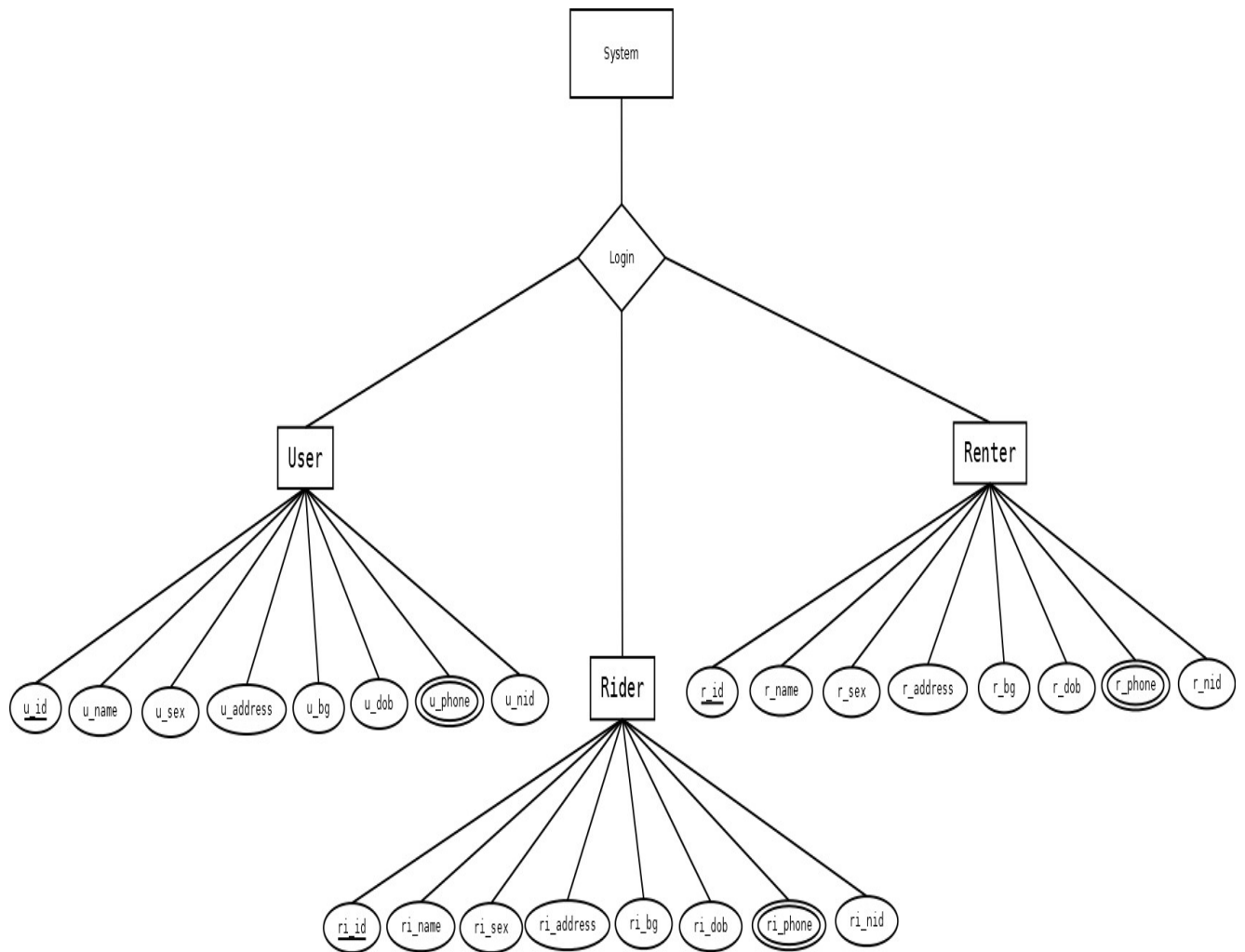
Figure: ER Diagram

Rubric for Project Assessment (CO1)

Marking Criteria	Marks Distribution (Maximum 3X5=15)				Acquired Marks
	Inadequate (1-2)	**Satisfactory (3)**	**Good (4)**	**Excellent (5)**	
Background Analysis	No background information regarding the project is given; project goals and benefits are missing.	Insufficient background information is given; project goals and benefits are poorly stated	Sufficient background information is given; the purpose and goals of the project are explained.	Thorough and relevant background information is given; project goals are clear and easy to identify.	
Analysis the impact of societal, health, safety, legal and cultural issues	Student vaguely discuss the impact of societal, health, safety, legal and cultural issues in their project	Student provided with partial relevance to the impact of societal, health, safety, legal and cultural issues in their project	Student fairly provided the analysis to the impact of societal, health, safety, legal and cultural issues in their project	Student comprehensively provided the analysis to the impact of societal, health, safety, legal and cultural issues in their project	
Existing Studies and Relevant Example	Ambiguous representative example.	Partially identify / indicate towards real-life example.	Real-life example is fairly connected towards the definition.	Comprehensively defend with real life example.	
				Acquired Marks:	
				CO Pass / Fail:	

Rubric for Project Assessment (CO2)

Criteria	Marks distribution (Max 3X5= 15)				Acquired Marks
	Inadequate (1-2)	Satisfactory (3)	Good (4)	Excellent (5)	
Argumentation of Model selection with Evidence of Argumentation	Does not articulate a position or argument of choosing appropriate model. Does not present any evidence to support the arguments for the choice of the model	Articulates a position or argument for choosing models that is unfocused or ambiguous. Presents incomplete/vague evidence to support argument for model choice	Articulates a position or argument of choosing models that is limited in scope. Does not present enough evidence to support the argument for the choice of the model	Clearly articulates a position or argument for the choosing software engineering models. Presents sufficient amount of evidence to support argument for the model selection	
Role identification and Responsibility Allocation	The project has poor project management plans for identifying roles and assigning the responsibilities	Identify few roles in the project management where some of the roles are left alone with any project responsibilities	Identify most of the roles in the project management and assign their responsibilities	Well planned project with proper role identification and responsibility allocation in the project management activities	
Submission, Completeness, Spelling, grammar and Organization of the Project report	Project report is not complete and Several errors in spelling and grammar. Present a Confusing organization of concepts, supporting arguments, and real-life example. Sentences rambling, and details are repeated.	Some errors in spelling and grammar. Some problems of organizing the answer in a logical order of defining, elaborating, and providing real-life examples.	Few errors in spelling and grammar. Presents most of the details in a logical flow of organization in definition, details, and example.	Project report is complete and No errors in spelling and grammar. Consistently presents a logical and effective organization of definition, details, and real-life example of the topic.	
				Acquired marks:	