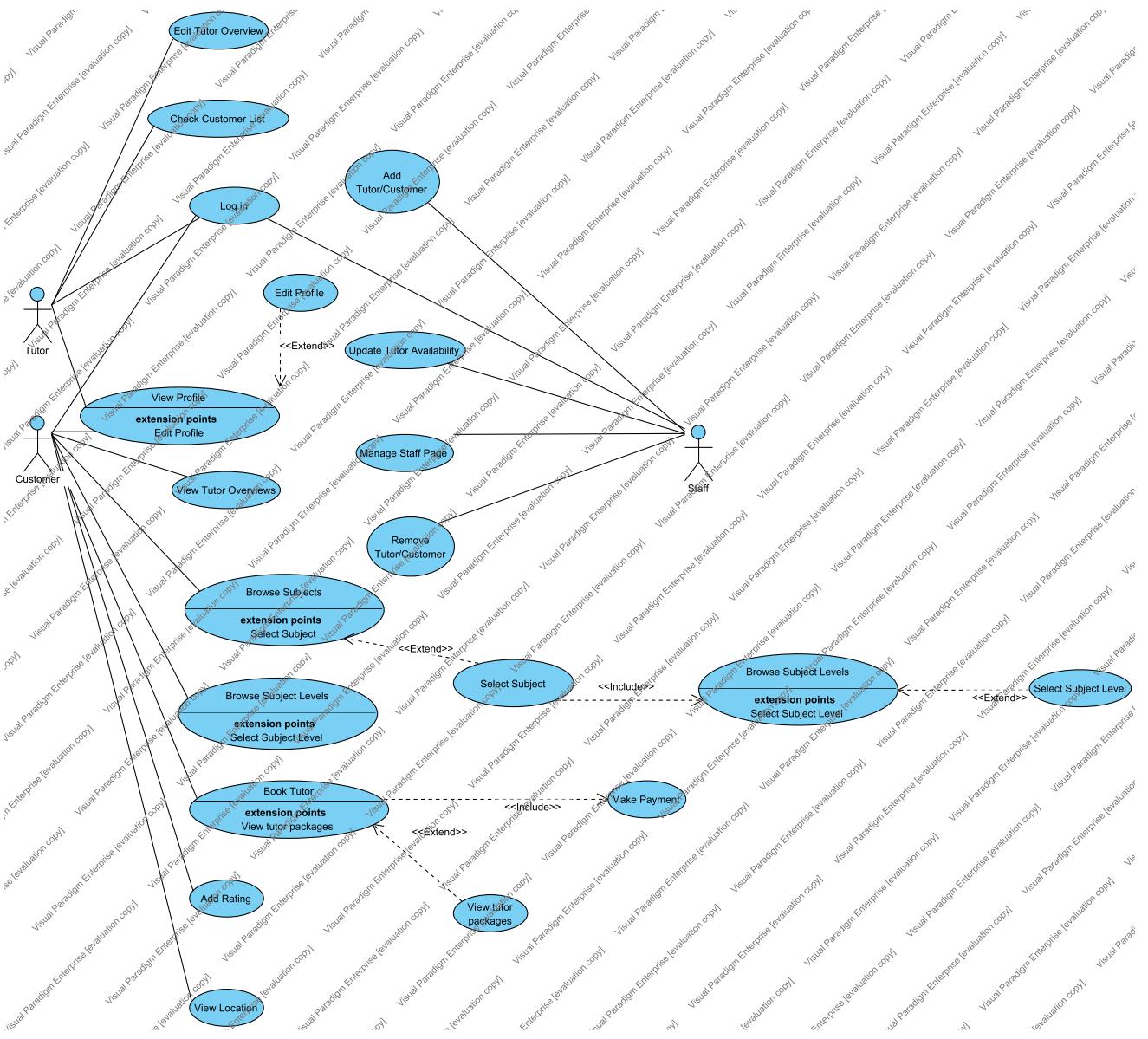


E-tuition design report

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1. E-Tuition Use Case



-Tuition Background Report

Tuition has been an important part for students who need extra help with their studies, that is why with our website, we can give the best tutors to your students at given times. E-Tuition will give an insight into how to make studying easier and simple, by ensuring qualified tutors and giving out helpful resources, like PowerPoint's, videos, and notes for each subject. Our website will give help to students from key stage 1 to key stage 4 and will have tutors to help the students with each subject. It will be the standard UK curriculum, as of the government of 2021, KS1 TO KS2 will have English, maths, science, design and technology, history, geography, art and design, music, computing and ancient and modern foreign languages. As of KS3 it will consist of: English, maths, science, history, geography, modern foreign languages, design and technology, art and design, music, citizenship, and computing. As of KS4, it will be made up of Core subjects of English, maths and science, Foundation subjects computing and citizenship and one more subject as of KS4 being GCSE: arts, design and technology, humanities, and modern foreign languages. All these subjects for each key stage will be on our website with the necessary resources and each subject will have a qualified teacher, with the choice of face to face or online lessons.

With our website, we will give the parents the choice to choose who is tutoring their child or children. With our website they can browse through the range of different tutors and choose which one they would like to have as different tutors have different specialities, for example in what they teach. It will have a choice where the parents can choose if they would like to face to face or online due to the pandemic, we have added online but this will be separate. Within E-tuition we are currently teaching from KS1-KS4 and will be the same as the standard UK curriculum as said above. Our range of tutors will be DBS checked and qualified to ensure your kids are safe and getting taught the correct way. On the website, the parents can choose what timing slots they would like to have after they have chosen a tutor and see what is available. Our aim is to supply parents with the best tutors that are available so their children can receive the education which is necessary.

Overall, the goal of E-Tuition is to help young people around the UK in terms of their education and give them the extra push or help some of them need to improve their academic abilities. This is especially important given the amount of education young people have missed for the last 2 years due to the pandemic. We want to provide parents with an effortless way to access and set up sessions with tutors to help their children. We hope that with this website we can help young people all around the UK achieve their academic goals.

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●1.1. Add Rating

ID: UC19

The Customers have are able to add ratings of 1-5 stars to a tutor they are working under, This will help to work out the rating average that will appear in the tutor overview.

● 1.2. Add Tutor/Customer

ID: UC10

Staff are able to add both customer and tutor profiles to the web-site.

● 1.3. Book Tutor

ID: UC07

The Customer can book a tutor and enter details such as how many lessons they would want and when they want to take the lesson.

The customer also has the option to view packages of lessons. If they don't want to manually select how many lessons they want to take.

● 1.4. Browse Subject Levels

ID: UC06

Customers can view all the subject levels that are offered on the web-site, such as GCSE and A level. They may then after select the subject level, which will add the subject to the customer's profile.

The user can also browse the subject levels themselves without having to first select a subject

● 1.5. Browse Subjects

ID: UC05

Customers can view a list of all the subjects that tutors cover on the web-site. They may select a subject after to add to their profile page

● 1.6. Check Customer List

ID: UC13

A tutor is able to check a list of all the customers that have a booking with them.

♀ 1.7. Customer

ID: AC01

These are the main users of the web-site that wish to book a tutor for themselves or their children.

● 1.8. Edit Profile

ID: UC03

The Customer and Tutor will be able to change the details on their profile page, such as their name and Email

● 1.9. Edit Tutor Overview

ID: UC14

The tutor is able to edit the information that is on their tutor overview page, such as their "about me" brief and contact information

● 1.10. Log in

ID: UC01

All users of the web-site will have to enter their log in details in order to gain access the web-site.

1.11. Make Payment

ID: UC08

After all the details of the booking are made the customer must pay in order to complete to process of booking the tutor.

1.12. Manage Staff Page

ID: UC09

The staff can edit the staff page, for example who appears on the list, the staff's contact information and name.

1.13. Remove Tutor/Customer

ID: UC11

Members of staff are able to remove tutors and customers from the web-site. An example case for this is if a tutor stops working at the web-site or if anyone request to leave the web-site.

1.14. Select Subject

ID: UC16

If the customer selects a subject from the subject list. After the uses is given the a list of subject levels to select for the subject

1.15. Select Subject Level

ID: UC18

Once a subject level is chosen the subject and subject level for that individual subject are added to the profile page of the user.

1.16. Staff

ID: AC02

Members of staff will manage and maintain the health of the web-site. This is could be done through admin and updating pages.

1.17. Tutor

ID: AC03

Tutors are on the web-site to be available for students to book for lessons

1.18. Update Tutor Availability

ID: UC12

The staff are able to adjust the availability of the staff. Through this it will prevent customers from booking lessons at the same time and to account for customers who cancel a lesson with the tutor.

1.19. View Location

ID: UC22

The Customer can view locations and see all the tutors that work within that area.

1.20. View Profile

ID: UC02

Customers are able to view their own profiles that will include information on them such as their name, contact information, subjects and any tutors their children are currently studying under.

From this page they may choose to edit their own profile

1.21. View Tutor Overviews

ID: UC04

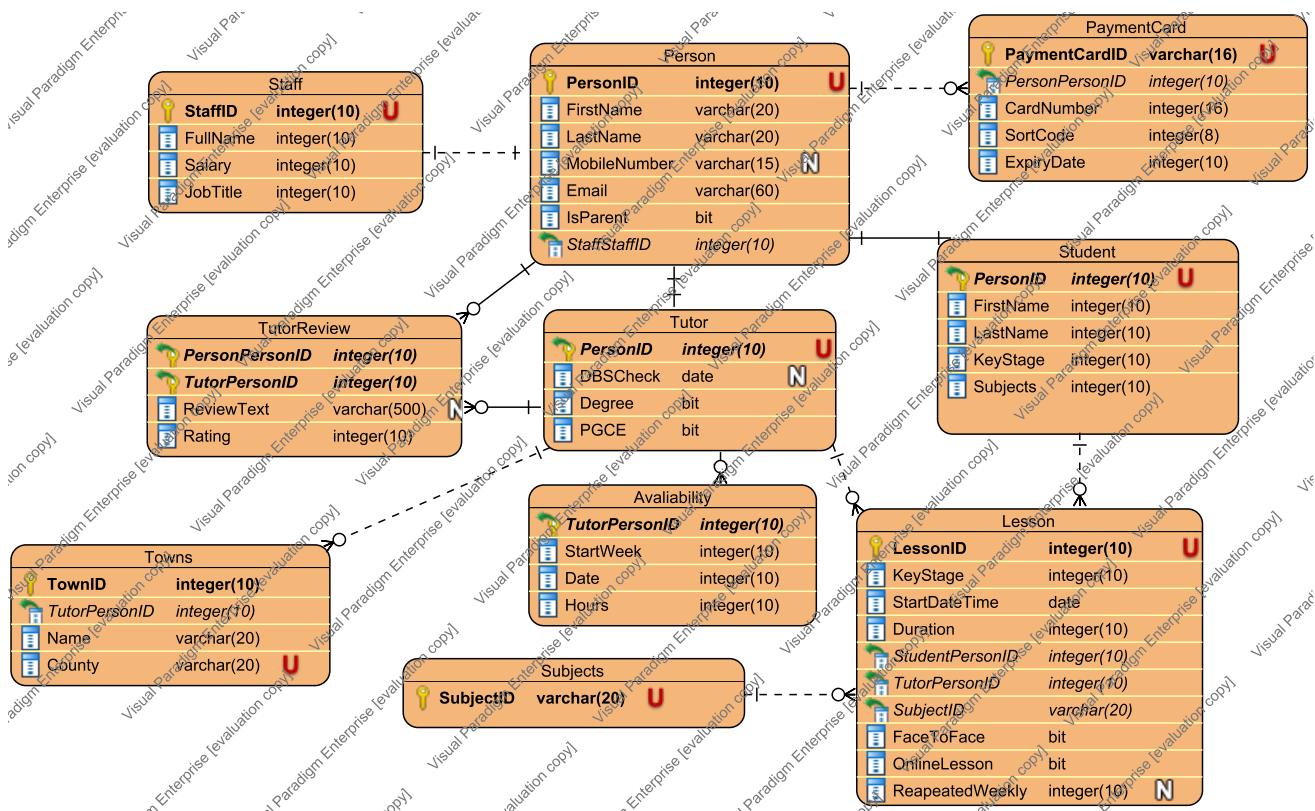
The Customer is able to view an overview page that will contain information on all the tutors associated with the web-site. Such as a brief "about me" section, their average rating and profile photo

1.22. View tutor packages

ID: UC20

The customer is able to view a page of the available packages and offers they can purchase as oppose to selecting how many lessons they want themselves in the booking section

2. Entity Relationship Diagram1



2.1. Availability

2.2. Lesson

All lesson details for the students

2.3. PaymentCard

Payment card details

2.4. Person

Person entity for both parents/students and tutors in one

2.5. Staff

Staff members of the website with their attributes

2.6. Student

Student details

2.7. Subjects

Subjects for the students

2.8. Towns

2.9. Tutor

What the tutor needs to have access and teach on the website

2.10. TutorReview

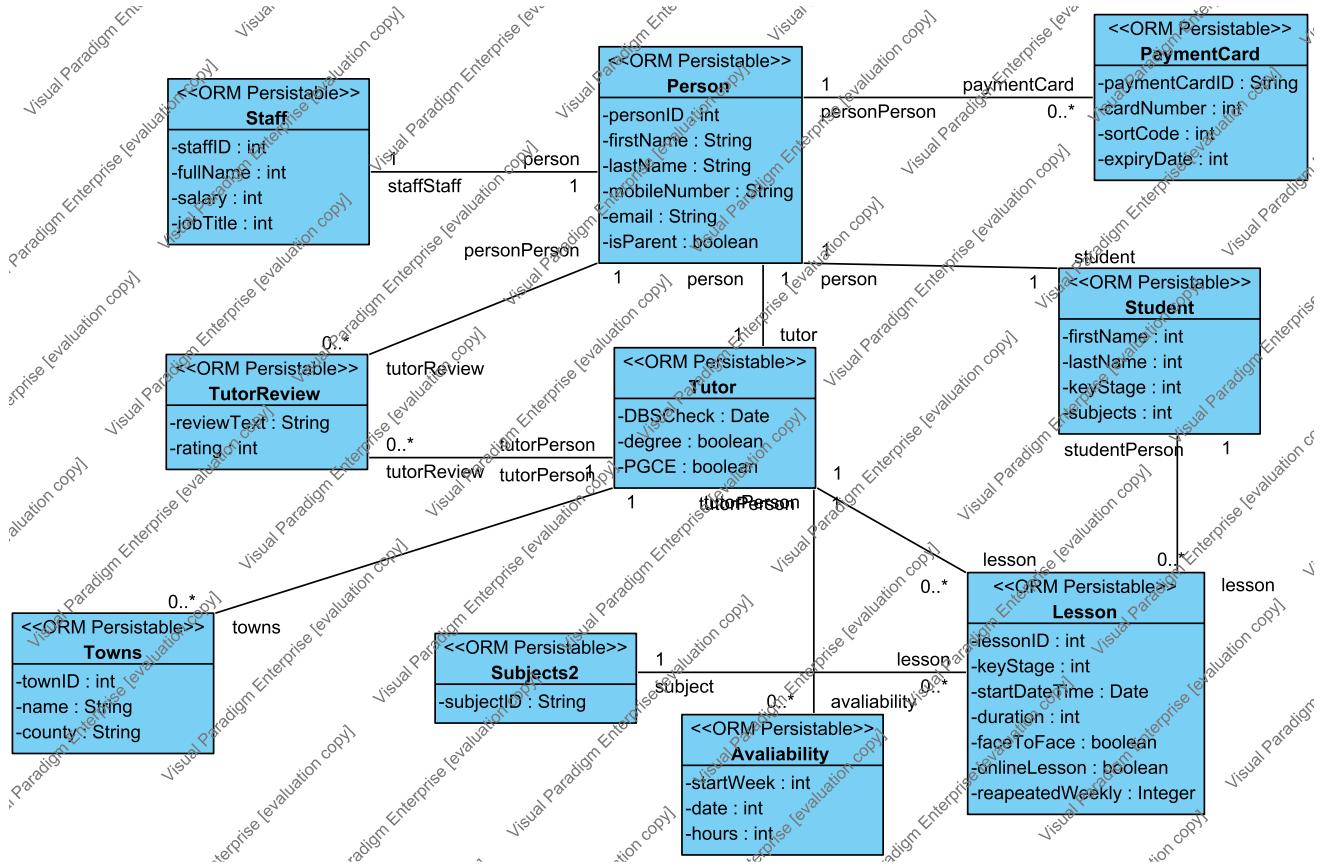
3. Data Dictionary

Entity Name	Entity Description						
	Column Name	Column Description	Data Type	Length	Primary Key	Nullable	Unique
 Availability							
	Date	integer	10	false	false	false	false
	Hours	integer	10	false	false	false	false
	StartWeek	integer	10	false	false	false	false
	TutorPersonID	integer	10	true	false	false	false
 Lesson	All lesson details for the students						
	Duration	integer	10	false	false	false	false
	FaceToFace	bit	0	false	false	false	false
	KeyStage	integer	10	false	false	false	false
	LessonID	integer	10	true	false	true	false
	OnlineLesson	bit	0	false	false	false	false
	ReapeatedWeekly	integer	10	false	true	false	false
	StartTime	date	0	false	false	false	false
	StudentPersonID	integer	10	false	false	false	false
	SubjectID	varchar	20	false	false	false	false
	TutorPersonID	integer	10	false	false	false	false
 PaymentCard	Payment card details						
	CardNumber	integer	16	false	false	false	false
	ExpiryDate	integer	10	false	false	false	false
	PaymentCardID	varchar	16	true	false	true	false

Entity Name	Entity Description					
PersonPersonID		integer	10	false	false	false
SortCode		integer	8	false	false	false
Person	Person entity for both parents/students and tutors in one					
Email		varchar	60	false	false	false
FirstName		varchar	20	false	false	false
IsParent		bit	0	false	false	false
LastName		varchar	20	false	false	false
MobileNumber		varchar	15	false	true	false
PersonID		integer	10	true	false	true
StaffStaffID		integer	10	false	false	false
Staff	Staff members of the website with their attributes					
FullName		integer	10	false	false	false
JobTitle		integer	10	false	false	false
Salary		integer	10	false	false	false
StaffID		integer	10	true	false	true
Student	Student details					
FirstName		integer	10	false	false	false
KeyStage		integer	10	false	false	false
LastName		integer	10	false	false	false
PersonID		integer	10	true	false	true
Subjects		integer	10	false	false	false
Subjects	Subjects for the students					
SubjectID		varchar	20	true	false	true
Towns						
County		varchar	20	false	false	true
Name		varchar	20	false	false	false
TownID		integer	10	true	false	false
TutorPersonID		integer	10	false	false	false
Tutor	What the tutor needs to have access and teach on the website					
DBSCheck		date	0	false	true	false
Degree		bit	0	false	false	false
PersonID		integer	10	true	false	true
PGCE		bit	0	false	false	false
TutorReview						
PersonPersonID		integer	10	true	false	false
Rating	It is only 1 to 5 stars	integer	10	false	false	false
ReviewText		varchar	500	false	true	false

Entity Name	Entity Description					
TutorPersonID		integer	10	true	false	false

4. Entity Relationship Diagram1 - Class Diagram



4.1. Availability

4.2. Lesson

Lesson class with the details of the lessons and the dates and times for the students

4.3. PaymentCard

4.4. Person

Person class with details for creating an account. The class also has inheritance with the other classes

4.5. Staff

Staff class with the attributes of staff ID, full name, salary and job title

4.6. Student

Student with their details when they setup with an account

4.7. Subjects2

Subjects class

4.8. Towns

4.9. Tutor

Tutor class with his/hers qualifications of teaching their specific subject

4.10. TutorReview