

Initial Database Design (Tables) Planned for Release 2:

User	
First_Name:	STRING
Last_Name:	STRING
DOB:	VARCHAR
Gender:	STRING
Address:	STRING
Facebook ID:	STRING
Mobile Number:	VARCHAR
Email:	STRING
Created_at:	DATETIME
Updated_at:	DATETIME
Password_digest:	STRING
Parent_Name:	STRING
Parent Mobile:	VARCHAR
Parent_Email:	STRING (PRIMARY)
Teacher_qualifications:	STRING
Teacher:	Bool
Admin:	Bool

Student Preferences	
User.Email (Student):	STRING (FOREIGN KEY)
Preferred_Day:	STRING
Preferred_Time:	TIME
Instrument:	STRING
Preferred_Teacher_Language:	STRING
Preferred_Teacher_Gender:	STRING
Created_at:	DATETIME
Updated_at:	DATETIME

Student Free Play Room	
User.Email (Student):	STRING (FOREIGN KEY)
Date:	DATE
Time:	TIME
Duration:	TIME
Created_at:	DATETIME
Updated_at:	DATETIME

Teacher Skills	
User.Email(Teacher):	STRING (FOREIGN KEY)
Instrument_1:	STRING
Instrument_1_Skill_Level:	STRING
Instrument_2:	STRING
Instrument_2_Skill_Level:	STRING
Language_1:	STRING
Language_1_Skill:	STRING
Language_2:	STRING
Language_2_Skill:	STRING
Created_at:	DATETIME
Updated_at:	DATETIME

Teacher Availabilities	
User.Email(Teacher):	STRING (FOREIGN KEY)
Day:	STRING
Time:	TIME
Duration:	TIME
Created_at:	DATETIME
Updated_at:	DATETIME

Admin Interview	
User.Email (Admin):	STRING (FOREIGN KEY)
User.Email (Teacher):	STRING
Date:	DATE
Time:	TIME
Duration:	TIME
Created_at:	DATETIME
Updated_at:	DATETIME

Lesson	
User.Email (Teacher):	STRING (FOREIGN KEY)
User.Email (Student):	STRING
Start_Date:	DATE
End_Date:	DATE
Day:	STRING
Lesson_Time:	STRING
Lesson_Type:	STRING
Lesson_Duration:	STRING
Lesson_Cost:	VARCHAR
Created_at:	DATETIME
Updated_at:	DATETIME

Initial Database Design (UML Diagram) Planned for Release 2:

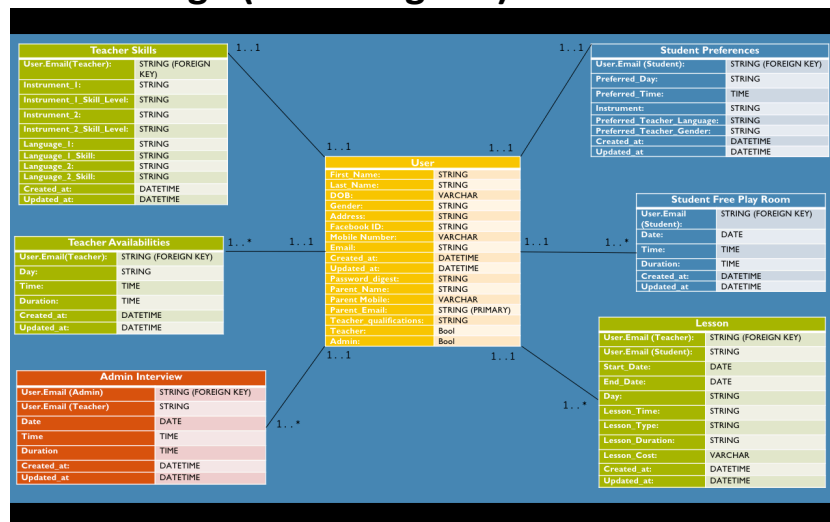


Figure 1: UML diagram planned for release 2

The above UML diagram is the initial database design plan for the website. The colour of each table depicts who can create, edit and delete entries into the table. **Green** tables entries can only be created by teachers; **Red** tables entries can only be created by admins while **blue** can only be altered by students. This plan is to be shown to the client team towards the beginning of sprint 3. Once the design has been agreed upon. The updates design will be implemented into the website.

Revised Database Design (UML Diagram) Planned for Release 2:

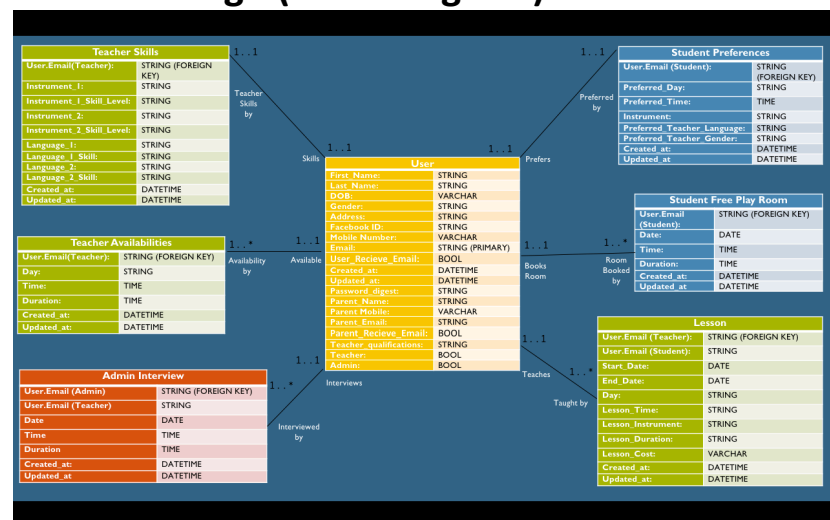


Figure 2: Revised UML diagram planned for release 2

On the 6/10/16 the Initial UML Diagram for the Database design was displayed to the client team and the tutor. Minor mistakes were found and changed as reflected above. Added Bool for student and parent receive email. This database design will now be implemented into ruby with both model and table created.

Database Design Release 1 vs Database Design Release 2:

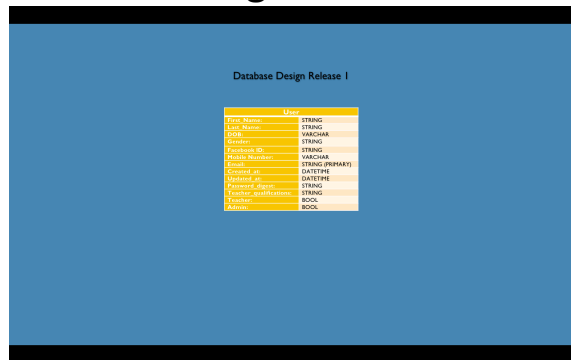


Figure 3: Database Design for Release 1

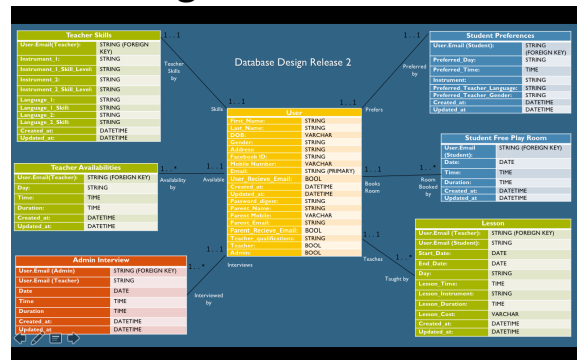


Figure 4: Revised Database Design for Release 2

As can be seen above (Figure 3 and 4), the database design has been revised considerably. The design now has relationships between tables. Additionally, the user table has more columns as required as part of release 2. This adds much more functionality to the project and is required in order to complete issues in release 2.