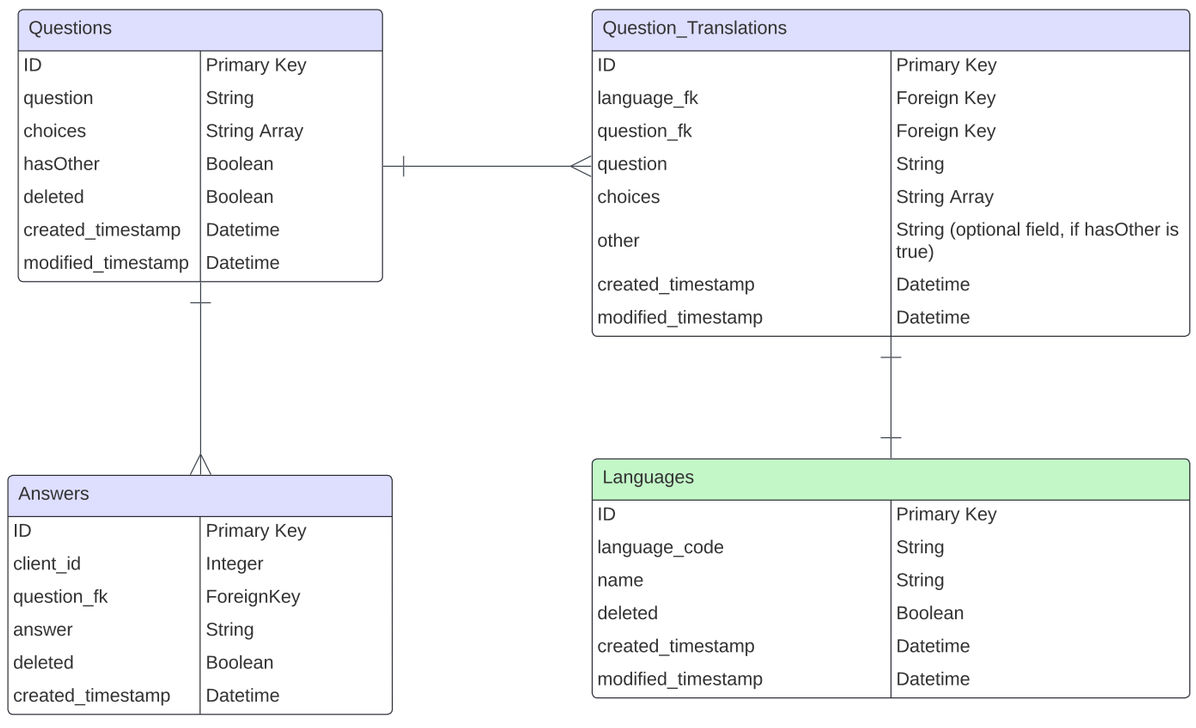
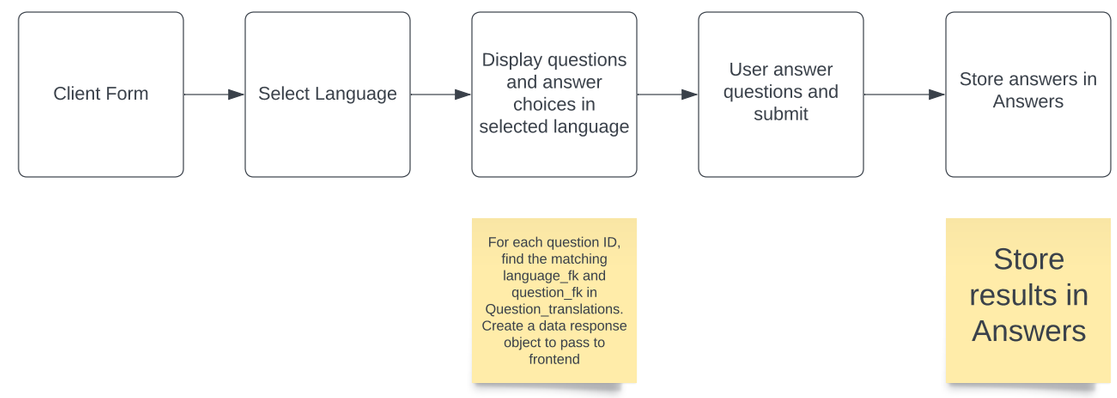
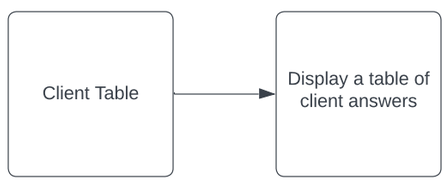
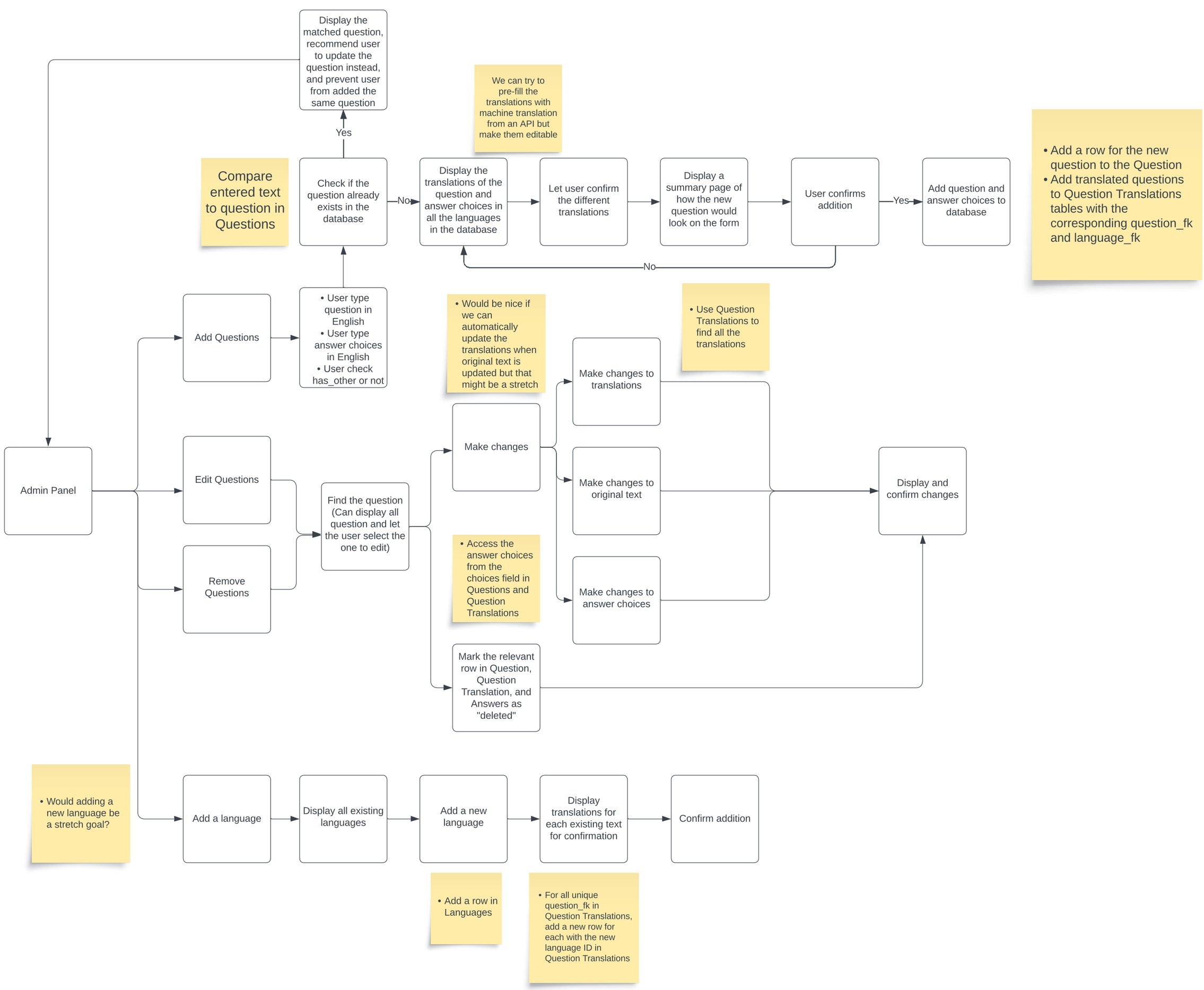
3


Questions
ID Primary Key
question String
choices String Array
hasOther Boolean
deleted Boolean
created_timestamp Datetime
modified_timestamp Datetime
Question_Translations
ID Primary Key
language_fk Foreign Key
question_fk Foreign Key
question String
choices String Array
other String (optional field, if hasOther is true)
created_timestamp Datetime
modified_timestamp Datetime
Answers
ID Primary Key
client_id Integer
question_fk ForeignKey
answer String
deleted Boolean
created_timestamp Datetime
Languages
ID Primary Key
language_code String
name String
deleted Boolean
created_timestamp Datetime
modified_timestamp Datetime


Client Form
Select Language
Display questions and answer choices in selected language
User answer questions and submit
Store answers in Answers
For each question ID, find the matching language_fk and question_fk in Question_translations. Create a data response object to pass to frontend
Store results in Answers


Client Table
Display a table of client answers


Admin Panel
Add Questions
• User type question in English
• User type answer choices in English
• User check has_other or not
Check if the question already exists in the database
Compare entered text to question in Questions
Yes
Display the matched question, recommend user to update the question instead, and prevent user from added the same question
No
Display the translations of the question and answer choices in all the languages in the database
We can try to pre-fill the translations with machine translation from an API but make them editable
Let user confirm the different translations
Display a summary page of how the new question would look on the form
User confirms addition
No
Yes
Add question and answer choices to database
• Add a row for the new question to the Question
• Add translated questions to Question Translations tables with the corresponding question_fk and language_fk
Edit Questions
Remove Questions
Find the question (Can display all question and let the user select the one to edit)
Make changes
• Would be nice if we can automatically update the translations when original text is updated but that might be a stretch
Make changes to translations
• Use Question Translations to find all the translations
Make changes to original text
Make changes to answer choices
• Access the answer choices from the choices field in Questions and Question Translations
Mark the relevant row in Question, Question Translation, and Answers as "deleted"
Display and confirm changes
• Would adding a new language be a stretch goal?
Add a language
Display all existing languages
Add a new language
Display translations for each existing text for confirmation
Confirm addition
• Add a row in Languages
• For all unique question_fk in Question Translations, add a new row for each with the new language ID in Question Translations