Requirement

Create a Spring boot application to manage Survey and its questions and multiple choice answers with below features.

- Add/edit/delete questions and answers.
- Read the list of all questions.
- Read the question with all answers.
- Create a new Survey with required questions.
- Feature to poll the Survey.
- Feature to get Survey report with distribution of a selected answer by question.

Technology used
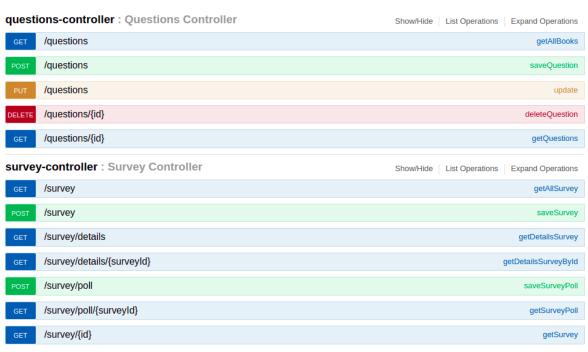
Java 1.8
Spring Boot
Database: H2 in-memory database
Swagger UI

RESTApi Details

Api Documentation

Api Documentation

Apache 2.0

questions-controller : Questions Controller   Show/Hide | List Operations | Expand Operations

GET	/questions	getAllBooks
POST	/questions	saveQuestion
PUT	/questions	update
DELETE	/questions/{id}	deleteQuestion
GET	/questions/{id}	getQuestions

survey-controller : Survey Controller   Show/Hide | List Operations | Expand Operations

GET	/survey	getAllSurvey
POST	/survey	saveSurvey
GET	/survey/details	getDetailsSurvey
GET	/survey/details/{surveyId}	getDetailsSurveyById
POST	/survey/poll	saveSurveyPoll
GET	/survey/poll/{surveyId}	getSurveyPoll
GET	/survey/{id}	getSurvey

[BASE URL: / , API VERSION: 1.0]

Implementation details.

This is a highly scalable application, each component of this application is loosely coupled. Due to this feature we can do any customisation in this application. Other than the features mentioned in the requirement below are some key features which are currently implemented.

- Same question can be used for multiple surveys.
- Easily fetch total number of polls to a survey.
- Feature to fetch the result count of already deprecated survey answer and question, and this can be provided based on request.(This is an addon feature, database is designed for this, but RESTApi yet to implement).