



homeController

+ Tab tabXML

+ Tab tabPDF

+ TabPane mainTabPane

+ TabPane tabHeaderPane

+ SplitPane xmlBorderPane

+ SplitPane pdfBorderPane

+ void initialize()

- loadXMLTabContent()

- loadPDFTabContent()

tabPDFController

+ VBox pdfSidebar

+ VBox pdfMainContent

+ List<Chapter> chapterList

+ int cutOff

+ void initialize()

- void reload()

- void loadSidebar()

- void addCutOff()

- void createChapter(Chapter chapter)

- void moveChapter(Chapter chapter, in direction)

- MenuButton createPointsMenuButton(List<Double> points)

EventService

- Runnable onXmlUpdate

- Runnable onPdfUpdate

+ static void triggerAllUpdate()

+ static void setXmlUpdate(Runnable r)

+ static void triggerXmlUpdate()

+ static void setPdfUpdate(Runnable r)

+ static void triggerPdfUpdate()

mainContentController

+ VBox form

+ VBox chapterDetails

+ HBox tableHeader

+ VBox tableContent

+ Button addNewChild

+ TextField parentName

+ void initialize()

- void createNewChild()

+ void updateContent()

- void loadContent()

- loadMainContent()

- loadExamContent(Exam exam, Integer col1Width, Integer col2Width)

- HBox creatChapterComponent(Chapter chapter, int index, Integer col1Width, Integer col2Width)

- loadChapterContent(Chapter chapter, Integer col1Width, Integer col2Width)

- HBox creatTaskComponent(Task task, int index, Integer col1Width, Integer col2Width)

- loadTaskContent(Task task)

- VBox creatVariantComponent(Variant variant, int numRows)

- VBox createScopeRadioButtons(Task task)

- VBox createDifficultyRadioButtons(Task task)

- createEditPoints(Task task)

- double getHeight(TextArea textArea, String newText)

- TextArea createTextArea(String text)

- Button createDeletButton(Item item, VBox row)

- Label createChip(String text, String before, String styleClass)

- ToggleButton createRadioChip(String text, String styleClass)

- void showAlert(String title, String header, Runnable onAccept)

- Button createEditButton(String toolTip)

- Button createDeleteButton(String toolTip)

Type (enum)

EXAM

CHAPTER

TASK

VARIANT

Scope (enum)

MOCK

EXAM

Difficulty (enum)

EASY

MEDIUM

HARD

tabXMLController

+ HBox breadCrumbs

+ VBox xmlMainContent

+ TreeView<String> xmlTreeView

- mainContentController mainContentController

+ void initialize()

- void reload()

- void handleTreeSelection(TreeItem<String> selectedItem)

- void updateData(List<Integer> path)

- loadMainContent()

- void updateBreadCrumbs(List<String> breadCrumbNames, List<Integer> path)

- TreeItem<String> getTreeItemByPath(List<Integer> path)

- TreeItem<String> selectTreeItemByPath(List<Integer> path)

- List<Integer> getTreeItemPath(TreeItem<String> selectedItem)

- void populateTree()

DataService

+ Exam exam

+ Item selectedItem

+ Type type

+ List<Integer> path

+ List<String> breadCrumbs

+ DataService(String name)

+ void updateSelectedFromPath(List<Integer> path)

+ void createRandomExampleData()

Variant extends Item

- String question

- String answer

+ Variant(Strings question, String answer)

+ setter

+ getter

+ @Override String getName()

Task extends Item

- List<Variant> variants

- Double points

- Difficulty difficulty

- Scope scope

+ Task(String name, ...)

+ setter

+ getter

+ Integer getNumberOfVariants()

+ void addVariant(Variant variant)

+ void deleteVariant(Variant variant)

+ String getFormatedDifficulty()

+ String getFormatedScope()

Item

- String name

+ Item(String name)

+ setter

+ getter

Chapter extends Item

- List<Tasks> tasks

+ Chapter(String name)

+ setter

+ getter

+ void addTask(Task task)

+ void deleteTask(Task task)

+ Double getNumberOfPoints()

+ List<Double> getPossiblePointCombination()

+ Integer getNumberOfTasks()

+ Integer getNumberOfVariants()

+ Integer getNumberOfDifficultyTasks(Difficulty difficulty)

Exam extends Item

- List<Chapter> chapters

+ Exam(String name)

+ setter

+ getter

+ void addChapter(Chapter chapter)

+ void deleteChapter(Chapter chapter)