LiT – Graph Model

Notes:

- If the player is on an **end of story** page, the following page will be the route map view. After having visited this page the story can not be edited anymore, it is **finished**

- When the timer ends, the editing components will be blocked and a message Time expired is shown. The user then needs to manually choose a transition in order to continue

- As soon as the player visits a page with a Storyline entity assigned, the player is locked into that Storyline (entry point page)

- Predefined set of style rules(CSS). At Storyline level, the editor can select from a set of predefined themes

- If multiple transitions are available the editor needs to set the priority/order of the transitions. Used to provide auto transition functionality for timer expiration

- Page Transition buttons will automatically be rendered at the end of the page, depending on availability

- Exercise inputs are always saved into notebook

- Use FuzzyComparison
- mode [contains, fullMatch]

- If no button text is defined the dialog is shown immediately on page visit

- Considered solved on reply Mail is sent by the system on page visit in the background

- Attachments of response mail should also be saved into notebook (filtered by filetype)

- RIch Text:
  - Inine images, Links, Formatiing
  - Placeholders: (FirstName, LastName, Salutation)

- RIch Text:
  - Font family, font size, text color, background color, bold, italic, underline, alignment
  - Placeholders: FirstName, LastName, Mail, Virtual Story Time, Left, PageTimeLimit, MoneyBalance.
  - Links, Tooltips

- Resource elements are managed sparely and can be (re-)used globally by different components

Entities and attributes:

- **Module**: title, icon, isActive
- **StoryLine**: title, icon, virtualTimeLimit, isActive
- **VisualTheme**
- **VirtualTime**: time, absolute/relative
- **Money**: time, absolute/relative
- **Page**: title, isActive, continueRandomly, timeLimit(TImer), isTImerVisible, isEndOfStory, notebookVisibility, ?oTransitionOnTimerExpiration
- **Chapter**: title, icon
- **Component**: x, y, width, heigText
- **PageTransition**: buttonText(empty if DialogResponse choice)
- **Notebook entry**
- **Exercise**
- **TextExercise**: minLength, maxLength, placeholderText, defaultText, rowHieght
- **TextSolution**
- **CheckboxExercise**: minSelection, maxSelection
- **Option**
- **RadioButtonExercise**
- **Option**
- **DateExercise**: isMandatorty, placeholderText
- **DateSolution**
- **UploadExercise**: isMandatorty, fileTypes
- **Delivery**
- **DialogExercise**: buttonText
- **DialogSpeech**
- **DialogResponse**
- **DialogNotebookEntry**
- **Character**: salutation, firstName, lastName, mailAddress
- **Image**
- **MailExercise**: subject, body, createNotebookEntries
- **MailNotebookEntry**
- **InfoMail**: subject, body, createNotebookEntries
- **TextComponent**
- **TextTooltip**
- **LinkComponent**: forceDownload
- **URL**
- **UniversityAccess**
- **Resource**
- **PdfComponent**
- **PDF**
- **DOCX**
- **ImageComponent**: viewRectange, zoomable
- **Image**

Relationships:

- Page STARTS_AT Module
- StoryLine ENTRY_POINT_FOR 0:1
- StoryLine THEMED VisualTheme
- Page SETS_TIME 0:1 VirtualTime
- Page SETS_MONEY 0:1 Money
- Page CREATES 0:n Notebook entry -createAt[enter, exit]
- Page BELONGS_TO 0:1 Chapter
- PageTransition FROM / TO Page
- Page DEPENDS_ON 0:n -criteria [visited, notVisited, timeExpiration]
- PageTransition CHARGES 0:1 Money
- PageTransition CHARGES 0:1 VirtualTime
- Exercise DEPENDS_ON 0:n -criteria [correct_input, incorrect_input, no_input]
- TextExercise SOLVED_IF 0:n TextSolution
- CheckboxExercise HAS_OPTION 1:n Option
- RadioButtonExercise HAS_OPTION 1:n Option
- DateExercise EXPECTS 0:n DateSolution
- UploadExercise SERVES_AS Delivery
- DialogExercise SAYS DialogSpeech
- DialogSpeech SPEAKER Character
- DialogSpeech CONTINUES_WITH 0:1 DialogResponse
- DialogResponse PROVIDES DialogSpeech
- DialogResponse CREATES 0:1 DialogNotebookEntry
- DialogResponse USE_TRANSITION 0:1 PageTransition
- Character PORTRAYED_BY Image
- MailExercise REPLY_TO_ADDRESS Character
- MailExercise CREATES 0:1 MailNotebookEntry
- InfoMail CREATES 0:1 MailNotebookEntry
- TextComponent HOSTS 0:n TextTooltip
- LinkComponent LINK_TO 0:1 URL
- LinkComponent REQUIRES 0:1 UniversityAccess
- LinkComponent LINK_TO 0:1 Resource
- PdfComponent HOSTS PDF / DOCX
- ImageComponent HOSTS Image