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university of koblenz
Computer Science

— Engineering Web and Data-intensive Systems - Winter Term 2024/25 —

Assignment 2.

From: Dec 2nd, 2024 To: Dec 16th, 2024

Notes on the sumbission

Please store your solution in the OLAT group folder. We have already created a `solutions` folder for you.

Create a sub-folder for each assignment according to the scheme `solutions/assignmentNN`.

Put all solution files into that subfolder. We prefer PDF documents. You shall also add other files contributing to the solution, for example Astah models, database scripts (in later assignments).

Serious Advice

If you repeat the EWADIS course, we *strongly recommend* to redo the assignments from scratch. It is not very useful to copy solutions from the last semester, even if you think you have a perfect solution or a reference solution that we provided.

The intent of the assignments is to actively practice, not to present a perfect solution!

1 Navigation Model

In this assignment, we are asking you to model a navigation sequence of the TSS domain model created in the first assignment.

We provide a reference solution for assignment 01 as an Astah model. The idea is that you will base your navigation design on pre-existing elements in the domain model to reach a comprehensive, consistent, and linked model/representation of the system. You can start with the navigation model below.

Task:

Use the UWE extensions to UML class diagrams to design a navigation model of the TSS system. The final navigation model must **clearly** identify and reflect the attributes and types of the domain model.

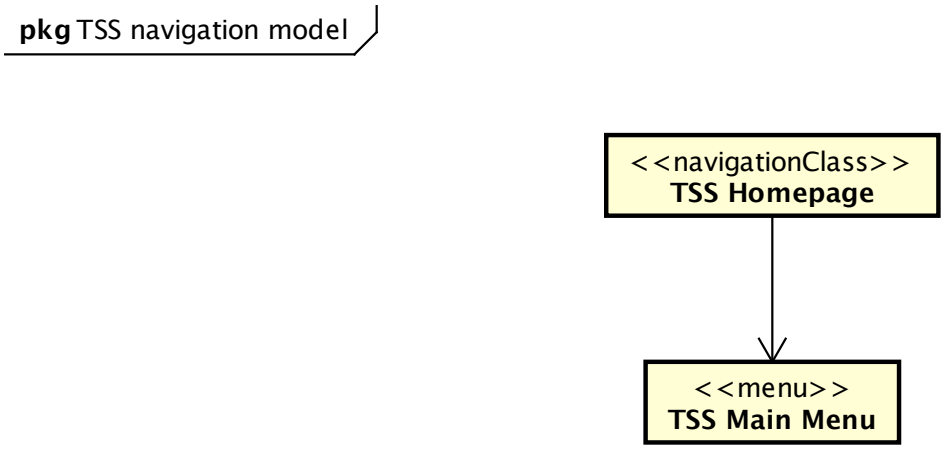
The created navigation model shall showcase the steps undertaken by **a user** to perform the tasks related to their position. Please complete the navigation diagram in the upcoming page according to the following description:

The user is able to access the TSS system through the *(Homepage)* and is then prompted to be redirected to the *(Main Menu)* as outlined in the navigation diagram below. The user is then able to access contract details and access time sheet details. Following the contract details, the user can check the status of a certain contract and change information such as starting and ending date. In order to access contract details, the user must be logged in. Once the details are changed, the user is automatically navigated back to the *(Main Menu)*.

At the same time, the user can check the status of the time sheets. In order to do this, the user must also be logged in. After getting access to see the status, the user can sign the time sheet. Once this step is done, the user is forwarded back to the *(Main Menu)*. From the time sheet details, the user has the option to choose adding a specific entry in the time sheet.

In this path, the user is then able to select the report type and provide a detailed description of the entry. Once the entry has been added, the user has the options to either be taken back to the time sheet details or to the *(Main Menu)*.

UWE Navigation Model:



Remarks:

You have to extend the reference solution provided in the assignments folder as `TSS-model.asta`. The domain model is represented as a class diagram. We've already created blank diagrams for the task of this assignment.

UWE uses a lot of graphical representations for the stereotypes. However, in Astah, there's limited support to extend the diagram graphics. We suggest to use Astahs so-called *mini icons* to show the UWE stereotypes. If you think that this is not sufficient, or you feel that there is no appropriate icon, you may still use the textual stereotypes, e.g. «`navigationclass`» or «`index`».

Please submit your solution as PDF files in your group folder `solutions/assignment02`.

Additionally, please add the `.asta` *model file*.

Please prepare to discuss your solution in one of the next exercises!