OOD

NHL Stenden Emmen, Information Technology

Report

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Detailed in the following table are the issues fixed and their solutions:

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| Issue | Solution |
| Many unused or redundant variables in some classes (like DEMO\_NAME and DEFAULT\_EXTENSION in Accessor or max & maxItems in XMLAccessor) | Redundant variables were removed, improving code readability and structure |
| Unused constructors (Like BitmapItem) | Removed in order to improve performance |
| Hard to read code in MenuController | Extracted code into different methods making the code easier to read and debug |
| Go To slide would update the slide counter with any value inputted (and if it didn’t exist it would stay the same) | Made a check for the slide number before updating the slide counter in order to fix this bug |
| Missing @Serial in SlideViewerFrame and SlideViewerComponent | Added @Serial annotation in order to improve the software’s functionality and supportability & to give compile-time assurance from MenuController class |
| Missing @Override annotation (BitmapItem & TextItem) | Added @Override annotation in order to improve the application’s functionality and supportability, as well as performance |
| Some variables with irrelevant names | Renamed variables appropriately for easier readbility |
| Unnecessary .toString() from XMLAccessor class | Removed for performance & functionality |
| Unnecessary casting in a lot of classes (like PAGENR to Object in the MenuController class and showList.get() to Slide in the Presentation class) | Remove unnecessary / redundant casting in order to improve performance, functionality and supportability |
| While loops instead of for each loops (TextItem class) | Replaced them with for loop for better readability and functionality |
| Data clumping in some classes | Implementing the fields in another class (MenuTags, SlideTags & XMLTags). It improves the app’s functionality, readability and usability |
| A lot of methods aren’t ordered properly | Reordered methods for better readability |
| Vector use in Slide class | Replaced it with ArrayList to improve performance |
| AboutBox class only has one method and it’s used only once | Deleted the class and incorporated it into a method in the MenuController class in order to improve usability & performance |
| this. Prefix missing from method and field declerations | Added this. where it was missing in order to improve code readbility |