

CRITERION D – Functionality and extensibility of the product

→ **ScreenCast (Video)** showing how your system (solution/product) works; think user documentation.

- ➔ Show how your system validates inputs and use every (menu) option
- ➔ Use your *test plan* (from criterion B) to fully test your IA solution/product;
- ➔ 5 to 7 minutes long, **do not exceed 7 minutes!**
- ➔ For macOS, use QuickTime's *File* → *Screen recording* option;
- ➔ For Windows, you may want to use:
 - OBS Studio <https://obsproject.com/> (also available for macOS, Linux)
 - Free Cam <https://www.freescreeenrecording.com/>
 - ShareX <https://getsharex.com/>
 - Camtasia or Snagit trials <https://www.techsmith.com/>
 - Screencast-O-Matic <https://screencast-o-matic.com/screen-recorder>
 - Or any similar tool you prefer, as long as it outputs a standard video file format with acceptable video and sound quality

→ **Modification and expansion of the system** (post-completion of the development stage)

Suggestions:

- ➔ Add your final UML class diagram (made with ObjectAid for Eclipse, EasyUML for Netbeans, or a similar plugin of functionality of your advanced IDE) to the end of the document for criterion B (Solution Overview/Design)
- ➔ Explain any modifications you made to your original class design (describe the modifications and justify each of them)
- ➔ Create a table including the most important classes in your system and their responsibilities / purposes; include comments on how these classes may be modified by future developers in order to keep up with increasing demands or changes (see example on next page)

Class	Responsibility	Modification/expansion
User	Defines the attributes and methods related to each family member who is given a budget and is allowed to have expenses.	The expenses array may be replaced by an <i>ArrayList<Expense></i> <i>expenses = new ArrayList<>()</i> ; in the User class, after importing <i>java.util.ArrayList</i> . Class constructors and <i>toString</i> methods in <i>User</i> will need to be modified accordingly, plus any array references in the <i>UserManager</i> class: add, remove, edit expense, plus save and load methods.
Budget	Defines the attributes and methods related to the monthly budget of each user.	The <i>calculateGST</i> method uses GST, a class constant (final), type double declared and initialised on line 3 of the Budget class to 0.07, the prevailing Goods and Services Tax where the client resides and at the time when this IA was developed. Modify this constant and re-compile the code if there are changes in the GST.
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