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**Task 1: What's wrong with requirements?**

Find errors in requirements; describe these errors; define the types of found errors.

Requirement number – error type - description

1. Unrealistic requirement. It is impossible to support all versions of all operating systems.
2. Inconsistent requirement. It is unclear what is meant by "empty fields" when saving a family database.
3. Ambiguous requirement. It is unclear what is meant by "several applications" and how they should be launched simultaneously.
4. Incomplete requirement. It is unclear what other tabs are available besides the General, Husband, Wife, and Children tabs mentioned.
5. Incomplete requirement. It is unclear what other information should be collected besides the family description and date of marriage.
6. Incomplete requirement. It is unclear what happens if the user clicks on the Cancel button in the dialog form when opening an existing database.
7. Inconsistent requirement. It is unclear whether the saved database name should include the file extension or not.
8. Optional requirement. It is unclear whether different languages are actually needed for the application.
9. Limited requirement. It is unclear why the application is restricted to only filling in information and not working with existing databases.
10. Incomplete requirement. It is unclear what other information should be collected besides the husband's first name, middle name, last name, and birth day.
11. Incomplete requirement. It is unclear what information should be collected about the wife and how it should be stored in the database.
12. Incomplete requirement. It is unclear what other information should be collected about the children besides their name and height.
13. Incomplete requirement. It is unclear what happens when the user selects a cell in the table.
14. Incomplete requirement. It is unclear what happens when the user tries to insert more children than can fit in the table.
15. Incomplete requirement. It is unclear how the scrolling functionality should be implemented.
16. Incomplete requirement. It is unclear what happens when the user clicks on the Edit Child button and how it differs from adding a new child.
17. Incomplete requirement. It is unclear how the Birth Day attribute should be filled in and whether it is mandatory or not.
18. Incomplete requirement. It is unclear what message should appear when the user clicks on the Del Child button and whether it is necessary to confirm the deletion or not.
19. Incomplete requirement. It is unclear what happens when the user tries to edit the name or height field for a child record.

## **Task 2: Put your Notes about Requirements Set.**

### **Disadvantages:**

1. Unrealistic requirement for supporting all versions of all operating systems.
2. Limited functionality, only allowing for input and storage of family information.
3. Inability to work with existing databases.
4. Lack of error handling for invalid input.
5. No support for editing husband or child records after initial creation.
6. Limited table display, with only 2 rows and 3 columns.
7. Lack of customization options for table display.
8. No validation or error messages for required fields.
9. Limited use of available screen space.
10. No sorting or filtering options for the child table.

### **Advantages:**

1. Simple and intuitive user interface for managing family information.
2. Ability to create and store family databases in a single file.
3. Support for multiple instances of the application running simultaneously.
4. Calendar functionality for selecting dates.
5. Automatic calculation of age based on birth date for husbands.
6. Easy addition and deletion of child records.
7. User-friendly calculator for entering height values.
8. Alert messages for existing database name conflicts during saving.
9. Multilingual support.
10. Secure, as it does not allow working with existing databases.