

A-Team README - 5 points

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|---|-----------|
| 1. Team size: X-Team (4) or 1 pt. per team member (max of 4 pts.) | + 4 _____ |
| 2. README includes all information (name, email, x-team) for each team member | + 1 _____ |

User Interface - 15 points

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| 1. Displays number of questions in question database | + 1 _____ |
| 2. Load data from a JSON file | + 1 _____ |
| 3. Form or scene to add a new question to the database | + 2 _____ |
| 4. Save questions in database to file | + 1 _____ |
| 5. Visible topics list | + 1 _____ |
| 6. Enter number of questions in quiz | + 1 _____ |
| 7. Displays question - question (1) , image (1) , choices (1) | + 3 _____ |
| 8. Displays results - number correct & answered (1) , score (1) | + 2 _____ |
| 9. Dialog upon program exit | + 1 _____ |
| 10. Layout and spacing of UI components (1) , aesthetics (1) | + 2 _____ |

GUI Functionality - 50 points

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|---|-----------|
| 1. Displays correct number of questions in database (2) , updates after adding questions (2) | + 4 _____ |
| 2. Loads data from a JSON file (5) , updates topics list (1) | + 6 _____ |
| 3. Form adds a new question to the database (5) , updates topics list (1) | + 6 _____ |
| 4. Saves data (2) in correct JSON format (4) | + 4 _____ |
| 5. Correct topics list (5) , in alphabetical order (1) | + 6 _____ |
| 6. Correct number of questions in quiz if input > available questions (2) , and otherwise (2) | + 4 _____ |
| 7. Displays question number (1) and total number of questions in quiz (1) | + 2 _____ |
| 8. Displays correct question - question (1) , image (1) , choices (2) | + 4 _____ |
| 9. Correct/Incorrect displayed after submitting each question | + 2 _____ |
| 10. New question replaces old question on screen (instead of displaying underneath) | + 2 _____ |
| 11. Displays correct results - correct answers (2) , total answered (2) , score (2) | + 6 _____ |
| 12. Dialog upon program exit offers save to file (3) and exit without saving (1) | + 4 _____ |

Input Validation - 10 points

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|--|-----------|
| 1. Does not crash/accept invalid input values when user enters number of desired questions | + 2 _____ |
| 2. Does not crash/accept invalid input values in add question form | + 4 _____ |
| 3. Did not experience other user input validation errors or crashes | + 4 _____ |

Design - 10 points

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| 1. Modular - easy to read, trace, test, debug, maintain | + 5 _____ |
| 2. Descriptive field, method, and class names (uses <i>interface</i> types to advantage) | + 5 _____ |

Style and Commenting - 10 points

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|---|------------|
| 1. Code is well organized, documented, and easy to read
(10 - great, 8 - good, 6 - okay, 3 - poor, 0 - no attempt) | + 10 _____ |
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Grader may include additional comments below: