**Prototype Report**

**Security**

With the impeding changes from The Data Protection Act 1998 to the General Data Protection Regulation (GDPR) 2018, data security needs to be even more vigilant. For more information on the GDPR <https://www.eugdpr.org/>

Establish strong passwords, capital, lowercase. Numbers and symbols. Use made up words where possible. Change the passwords every 90 days. Protect files and folders, restrict the access to senior management.

**Legal Considerations**

Payment Card Industry Data Security Standard

**Development & Implementation**

To ensure the schedule is adhered to, the project will be monitored closely.

We will endeavour to anticipate the worst-case or heaviest-use scenario early in the project so as not to bottleneck as we come to completion.

We have plenty of resources available to overcome productivity issues, we use the scrum technique to keep moral and productivity high. The deadlines we set are realistic.

**Prototype Status**

We have a basic work prototype which has two main issues which need addressing. The first, is that data saved to the contract text file does not check to ensure data is written to a blank line. The second issue is a java InputMismatchException.

**Errors**

|  |  |  |  |
| --- | --- | --- | --- |
| **Description** | **Values / Input** | **Expected outcome** | **Actual outcome** |
| welcome() | 0 (zero)  1  2  3  4 | Exit program  Run getFirstName()  Run displaySummary()  Run selectedMonthSummary()  Run searchReferenceAndName() | Exit program  Run getFirstName()  Run displaySummary()  Run selectedMonthSummary()  Run searchReferenceAndName() |
| Welcome() | Any other whole number | Loop back to welcome() with message explaining numbers 1-4 and only | Loop back to welcome() with message explaining numbers 1-4 and only |
| welcome() | Any letter, floating point number or symbol  345£$£"$ | Loop back to welcome() with message explaining numbers only | java.util.InputMismatchException |
| getFirstName() | 0 (zero)  Any number  Any letter  Any symbol  345£$£"$ | Yes No Boolean check asks user if input is correct | Yes No Boolean check asks user if input is correct |
| getSecondName() | 0 (zero)  Any number  Any letter  Any symbol  345£$£"$ | Yes No Boolean check asks user if input is correct | Yes No Boolean check asks user if input is correct |
| getReference() | GB123B | Runs getContractLength() | Runs getContractLength() |
| getReference() | 12GBN2 | Message saying  Incorrect format  Please check your reference | Message saying  Incorrect format  Please check your reference |
| getReference() | $%"£$"£$ | Message saying  Incorrect format  Please check your reference | Too Many/Too Few Characters  Please check your reference |
| getInternationalCalls() |  | Runs getDataBundle() | Runs getDataBundle() |
| getInternationalCalls() | $% | Enter Y or N only  Loop back to start of method  getInternationalCalls() | Enter Y or N only  Loop back to start of method  getInternationalCalls() |
| getInternationalCalls() | Wertwe | Enter Y or N only  Loop back to start of method  getInternationalCalls() | Enter Y or N only  Loop back to start of method  getInternationalCalls() |
| getInternationalCalls() | $%"£$"£$ | Enter Y or N only  Loop back to start of method  getInternationalCalls() | Enter Y or N only  Loop back to start of method  getInternationalCalls() |
| getInternationalCalls() | 2.1 | Enter Y or N only  Loop back to start of method  getInternationalCalls() | Enter Y or N only  Loop back to start of method  getInternationalCalls() |
| getMinutes() | 2.1 | Incorrect value entered, must be between 1-3  Please enter a number: | InputMismatchException |
| getMinutes() | Wertwe | InputMismatchException | InputMismatchException |
| getMinutes() | 0, 4 -9 | Incorrect value entered, must be between 1-3  Please enter a number: | Incorrect value entered, must be between 1-3  Please enter a number: |
| getDataBundle() | 1-4 | Incorrect value entered, must be between 1-3  Loop back to start of method getDataBundle | Incorrect value entered, must be between 1-3  Loop back to start of method getDataBundle |
| getDataBundle() | 0,5-9 | Incorrect value entered, must be between 1-3  Loop back to start of method getDataBundle | Incorrect value entered, must be between 1-3  Loop back to start of method getDataBundle |
| getDataBundle() | 2.1 | InputMismatchException | InputMismatchException |
| getDataBundle() | Wertwe | InputMismatchException | InputMismatchException |
| getDataBundle() | $%"£$"£$ | InputMismatchException | InputMismatchException |
| getContractLength () |  | Please enter numbers between 1-3 or 0 to exit | Looped back to getMinutes() |
| getContractLength () | 2.1 | InputMismatchException | Looped back to welcome() |
| getContractLength () | Werw | InputMismatchException | Looped back to welcome() |
| getContractLength () | 4 | Please enter numbers between 1-3 or 0 to exit | Please enter numbers between 1-3 or 0 to exit  Looped back to getContractLength() |
| getContractLength () |  | Please enter numbers between 1-3 or 0 to exit | Looped back to getMinutes() |
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