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| **Evaluation Criteria** | **Area** | **Factor** | **Requirement** | **Basis** | **Design One** | **Design Two** | **Best Design** |
| Are users required to log-in with a PIN? | Completeness | Effectiveness | Functional | Mock-Up | III | III | – |
| Are users prompted to create a new PIN upon first log-on? | Completeness | Effectiveness | Functional | Not Assessable from Design | | | |
| Can PINs be changed (of that user) once logged on? | Completeness | Effectiveness | Functional | Not Assessable from Design | | | |
| Are PINs stored in an encrypted file? | Completeness | Effectiveness | Functional | Data Store | I | III | 2 |
| Is all input data validated? | Ease of Use | Efficiency | Functional | Pseudocode | II | III | 2 |
| Can employee data be added to a store? | Functionality | Efficiency | Functional | Data Store/ Pseudocode | III | II | 1 |
| Can employee data be edited/removed? | Functionality | Efficiency | Functional | Data Store/ Pseudocode | III | II | 1 |
| Is employee data stored in an encrypted file? | Completeness | Effectiveness | Functional | Data Store | I | III | 2 |
| Can the times of the shift-blocks be edited? | Functionality | Efficiency | Functional | Mock-Up | III | II | 1 |
| Are names and shift-blocks selectable from a dropdown list only? | Ease of Use | Efficiency | Functional | Mock-Up | II | III | 2 |
| Is manual entry in fields prohibited during roster generation? | Ease of Use | Efficiency | Functional | Mock-Up | III | III | – |
| Can last week’s roster be copied for use as a template? | Functionality | Efficiency | Functional | Mock-Up | III | III | – |
| Can rosters be generated? | Functionality | Efficiency | Functional | Pseudocode | III | III | – |
| Can rosters be suggested to the owner user-group? | Functionality | Efficiency | Functional | Mock-Up/ Pseudocode | III | III | – |
| Are rosters exported as a PDF? | Communication of Message | Effectiveness | Functional | Not Assessable from Design | | | |
| Are rosters sent to employees via email? | Cost of File Manipulation | Efficiency | Functional | Pseudocode | III | III | – |
| Are rosters archived upon sending? | Cost of File Manipulation | Efficiency | Functional | Pseudocode | III | III | – |
| Are archived rosters overwritten if a new roster is archived in the same week? | Cost of File Manipulation | Efficiency | Functional | Not Assessable from Design | | | |
| Can archived rosters be searched (by employee name)? | Functionality | Efficiency | Functional | Mock-Up/ Pseudocode | III | II | 1 |
| Can the search results be sorted (by date or shift-start-time)? | Functionality | Efficiency | Functional | Mock-Up/ Pseudocode | III | III | 1 |
| Are closing times past midnight autocorrected to the “close” time? | Ease of Use | Efficiency | Functional | Not Assessable from Design | | | |
| Is the user alerted if they select a closing time earlier than an opening time? | Ease of Use | Efficiency | Functional | Not Assessable from Design | | | |
| Is the user alerted to missing/deleted files? | Robustness/ Completeness | Effectiveness | Functional | Not Assessable from Design | | | |
| Are missing files replaced with a blank template (or if first time run)? | Functionality | Efficiency | Functional | Not Assessable from Design | | | |
| Is the user prompted to send/save their roster before closing? | Robustness/ Completeness | Effectiveness | Functional | Not Assessable from Design | | | |
| Are useful error messages provided? | Robustness/ Completeness | Effectiveness | Functional | Not Assessable from Design | | | |
| Is the application always in full-screen mode? | Attractiveness | Effectiveness | Non-Functional | Mock-Up | III | I | 1 |
| Is the UI basic (not graphics intensive, few visual elements)? | Accessibility | Effectiveness | Non-Functional | Mock-Up | II | III | 2 |
| Does the UI follow the macOS design language (in terms of button positions and functionality)? | Ease of Use/ Accessibility | Efficiency/ Effectiveness | Non-Functional | Mock-Up | 0 | II | 2 |
| Are the UI elements big (with ample whitespace)? | Accessibility | Effectiveness | Non-Functional | Mock-Up | III | I | 1 |
| Are the employee names colour coded when they appear (where possible)? | Readability/ Clarity | Effectiveness | Non-Functional | Mock-Up | III | III | – |
| Is the company logo displayed in the top left of each form? | Attractiveness | Effectiveness | Non-Functional | Mock-Up | 0 | 0 | – |
| Will the software reliably function (for five years) after deployment? | Accuracy | Effectiveness | Non-Functional | Not Assessable from Design | | | |
| Are all errors caught and handled so that it does not crash? | Accuracy/ Relevance | Effectiveness | Non-Functional | Not Assessable from Design | | | |
| Is autocorrection disabled for manually typed data? | Speed of Processing | Efficiency | Non-Functional | Pseudocode | III | III | – |
| Is the software easily updated/maintained? | Maintainability | Effectiveness | Non-Functional | Not Assessable from Design | | | |
| Is it possible to send a roster within three clicks (not including generation)? | Speed of Processing/ Timeliness | Efficiency/ Effectiveness | Non-Functional | Mock-Up/ Pseudocode | III | III | 1 |