**[Product]**

**MTM Program Product**

**Software Requirements Specification**

*[Version 1.0]*

*[9/12/2011]*

*[Applying MTM SRS Template Version Number]*

Standard Version Number: 3.5

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Version History

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| *Version* | *Date* | *Authors* | *Comment* |
|  |  |  |  |

Template Version History

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| *Version* | *Date* | *Authors* | *Comment* |
| 1.0 | 9/12/2011 | Edwin Dorwelo Jr. | Collaborated on team-wide document |
| 3.0 | 7/21/2012 | Frank Ackerman | Initiating standards versions |
| 3.1 | 8/2/2012 | Frank Ackerman | Some non-functional requirements definitions .Added Adaptability, Enhanceability, and Portability |
| 3.2 | 1/17/2013 | Frank Ackerman | Added usability comment |
| 3.3 | 3/6/2013 | Frank Ackerman | Added a bit more explanatory text and final section 8. |
| 3.5 | 3/10/2018 | Celia Schahczenski | Changed format of dates, rearranged, renamed items, removed Illustrative Use Cases, increased some explanations, added appendices including data and report sections. |

**Montana Tech Software Engineering Students:**

These Montana Tech Method software engineering standards encapsulate Dr. Ackerman’s decades of experience in the software industry, the IEEE software engineering standards, and many suggestions from various texts. They have gone through many revisions and additions over the last several years. They are part of your software engineering studies so that (1) you may have the experience of developing software to a standard (which you may find you need to do if you take a job that requires high reliability software), and so that (2) you will have the experience of developing high quality software. You are also invited to participate in the continuing evolution of these standards by studying them critically and making suggestions for their improvement and correction.

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*[Steps to turn this template into a product SR:*

* *Change the file name to a name that refers to the product and contains “SRS”*
* *Substitute the name of the product for* [Product] *in both the title and the heading.*
* *Change [VersionNumber] to “Version 1.0” for the first complete version or to “0.x” for initially incomplete versions. Do this in the middle of the title page, the heading, and the version table.*
* *Change [VersionDate] to the release date of this version and also change this item on the heading.*
* *Make an initial entry in the title page version table. The version number and date in the table should match the entry on the center of the page*
* *Either replace all of this bracketed, italic text with actual SRS text or delete it.*
* *When your document is complete re-set the table of contents so that the headings there match the document.]*

# Introduction

*[This Software Requirements Specification template is designed to facilitate the definition of processes and procedures relating to software requirements specification activities. This template was developed using IEEE Std 830-1998, IEEE Recommended Practice for Software Requirements Specifications.*

Information displayed in brackets is explanatory. Delete the bracketed text items and add your project-specific input. These items are food for thought on the section they address.

*The introduction section should explain the purpose and scope of the project software requirements specification (SRS), as well as, provide clarification of definitions, acronyms, and references. This section should also provide an overview of this document.*

*Place any material here that is not specific to any of the sub-sections below.]*

This project is a software initiative designed to foster and strengthen the bond between incarcerated parents and their children. Incarceration can often result in strained family relationships, particularly with children who are left without regular parental interaction. Recognizing the importance of maintaining these connections, this project seeks to empower inmates to read to their children via tablet devices during scheduled days of the week within a limited time frame.

This Software Requirements Specifications (SRS) document outlines the objectives, features, and requirements of this project, serving as a comprehensive guide for its development.

## Software Purpose and Scope

*[This subsection should:*

1. *Identify the software products to be produced, by name*
2. *Explain what the software products will, and if necessary, will not do*
3. *Describe the application of the software being specified including all relevant goals, objectives, and benefits from producing the software.]*

* **Maintaining Family Bonds:** The primary goal of this software project is to enable incarcerated parents to maintain and strengthen their connections with their children by facilitating regular storytelling sessions through digital means
* The software product to be produced goes will allow incarcerated parents to read books to their children via proprietary tablets. They should not be able to connect with anyone else.
* The software aims to mitigate the negative impact of parental incarceration on children by providing a means for regular meaningful interaction

## Document Purpose and Contents

*[This subsection should explain the purpose for writing an SRS for this project and describe the intended audience for the SRS. This subsection should describe the information that will be presented in each of the subsections from §2 on.]*

* The purpose of this Software Requirements Specification (SRS) document is to define the functional and non-functional requirements for the development of the inmate-to-child connection software
* The document is organized into several sections, including but not limited to Introduction, General Factors, Use Cases, and Requirements. Each section provides specific information related to the software’s development and operation
* An SRS for this project will help prison authorities determine whether or not they would like to employ the software in their prison, and will help them understand what its purpose is. If they do not know this information, they may not wish to use it in fear of the software being exploited in some way.

## References

*[This subsection should list all important references used within the SRS. If there are no pertinent references for this product that fact should be stated here.]*

# General Factors

*[The General Factors section should describe the general factors that affect the product and its requirements. Place any material here that is not specific to any of the sub-sections.*

*In this and each subsequent major section, briefly describe the purpose of this section from the reader’s perspective.]*

The development of this software is influenced by a range of critical general factors, which shape the scope and approach of the project as a whole. Some factors may include:

* Correctional Facility Regulations: Compliance with the participating correctional facility regulations and policies is essential, including security protocols and inmate technology usage guidelines, to ensure the software’s feasibility and success
* User Accessibility: Inmates may have varying levels of technological proficiency. Designing a diverse user-centered interface is essential to make the software accessible to a wide range of users within the correctional facilities
* Scheduled Usage and Time Limits: Scheduling of inmate-to-child interactions and adherence to specified time limits are core functionalities, which must strictly adhere to correctional facility regulations to ensure the software’s acceptance
* Monitoring and Reporting: Incorporating monitoring and reporting mechanisms is vital to track and regulate each inmate’s session, facilitating compliance and correctional regulations
* Hardware Constraints: Due to the nature of the project, software will be limited to proprietary tablets provided to the correctional facilities in order to prevent unauthorized usage by inmates during sessions. As a result, the provided tablets will be limited to the inmate-to-child software, allowing only authorized personnel to access other core features of the tablet
* Content Management: Managing the availability of age-appropriate content and ensuring copyright compliance is essential to provide a safe and enriching experience for both inmates and their children
* Legal and Ethical Considerations: Adherence to legal and ethical standards, including laws related to inmate communication and child welfare, is imperative to ensure project’s ethical and legal soundness

## Product Perspective

*[This subsection should put the product into perspective with other related products or projects. If the product to be produced from this SRS is totally independent, it should be clearly stated here. If the product to be produced from this SRS is part of a larger system, then this subsection should describe the functions of each component of the larger system or project and identify the interfaces between this product and the remainder of the system or project. This subsection should identify all principle external interfaces for this software product (Note: descriptions of the interfaces will be contained in another part of the SRS).]*

* The software to be produced is independent of any other products/projects.
* The software will run on proprietary tablets supplied to the correctional facility
* A hardware-independent version of the software will be distributed to the current guardian(s) of the inmates’ child/children
* Each session will be monitored remotely, with all tablet activity being viewable by an appointed project supervisor at the facility to ensure no unauthorized use
* A guard will be present in the same room as the inmate during each session to monitor any erratic or suspicious behavior

## Product Functions

*[This subsection should provide a summary of the functions to be performed by the software produced as a result of this SRS. Functions listed in this subsection should be organized in a way that will make it understandable to the intended audience of the SRS. (Note: this subsection is an overview; details of the specific requirements will be contained in section 4.)]*

* Incarcerated parents and their child(ren) will log into the software, where they will be able to see one another. The child(ren) will choose a book, which will then be read to them by the parent. The meeting will last one hour and there will be a five-minute log-off warning.

## Environmental Conditions

*[This subsection should provide a summary of the environment in which the software must operate. (Note: this subsection is an overview; details of the specific requirements will be contained in the remainder of the document.)]*

* The software will be operating inside of the prison where the incarcerated parent is held and ideally inside of the guardian’s home (it could be used elsewhere though, since tablets are portable). Both the inmate and the children should be supervised to ensure that the product is not abused in any way (such as the inmate managing to contact someone other than their child).

## User Characteristic

*[This subsection should describe the general characteristics of the eventual users of the product that will affect the specific requirements. Eventual users of the product will include end-product customers, operators, maintainers, and systems people as appropriate. For any users that impact the requirements, characteristics such as education, skill level, and experience levels will be documented within this subsection as they impose constraints on the product.]*

* The children will likely be in an age range anywhere from 3 years old to potentially sometime early in their teenage years. Therefore, the reading level of the books will vary drastically. The parents that use the software will also have varying levels of education, since it is possible (and highly likely) that some of them dropped out of school.

## Dependencies

*[This subsection should list all external system dependencies on which the software resulting from the SRS will depend. This subsection should be the source for recognizing the impact of any changes to systems on the SRS and resulting software depends. This section can highlight unresolved requirement issues that should be recorded on the Project Manager’s Open Issues List.]*

* The software will run on tablets that have been approved for use by the Department of Education for use by the inmates, and approved devices for use by the children. A stable network connection during the reading sessions is also important.

## Assumptions

*[This subsection should list all assumptions that on which the software resulting from the SRS will depend that have not been covered above. This subsection should be the source for recognizing the impact of any changes to these assumptions on the SRS and resulting software.. This section can highlight unresolved requirement issues that should be recorded on the Project Manager’s Open Issues List.]*

* The software does not depend on anything that has not already been mentioned.

# Use Cases

*[Use cases describe possible interactions between an actor and a system that results in an outcome that provides value to the actor. Develop these use cases with the client. This section may begin with a use case diagram, an analysis model that identifies the actors who can interact with a system, along with the various use cases with which each actor might be involved.*

*If no use cases exist for this product, this section should read “*Use Cases were not developed for this specification”*.]*

User Story #1

An inmate at a correctional facility, Donovan, was recently approved to participate in the reading program. He has a son, age 5, that will be supervised by his ex-wife. Since he was recently approved, Donovan has never used the software before, but he is familiar with the tablets that will be used. The ex-wife watched a tutorial video instructing her on navigating the menus. She has also been told the login info and has received an approved tablet. Donovan will be reading to his son on Saturday at 3:00 p.m. Donovan is given his login info and signs on, under the watch of a guard. He is prompted to make some security questions and to make his own password. His ID cannot be changed, since his ID is his inmate ID number. The ex-wife also creates a new password, but is also prompted to make a new ID.

On the home screen, he connects with and greets his son, who then selects a book to be read. Once the book is selected, a timer for one hour begins. As they proceed through the pages, Donovan stops to explain any pictures they encounter. At one point, his son wanted to hear the previous page again, so Donovan scrolls up to the previous page and reads it once more. His son can read some of the words, but frequently has to ask what some of them mean. They get through about one and a half books, when the 2-minute log-off warning pops up. They discuss finishing the second book next time, plan the next book to read briefly, and say their goodbyes.

User Story #2

Jerome, an inmate sentenced to 2 years because of battery, has applied for the reading program which has been approved. Jerome has 5 children all one year apart, with the oldest being 9 years old. His wife has agreed to attend these reading sessions. Jerome’s upcoming session is scheduled this Friday at 5 p.m., which his wife has been notified in advance, downloading the program-specific application on her tablet. Jerome will be supervised by a prison guard during his 1-hour session.

Jerome logs into the system with his inmate identification number as well as the default password given to him by the supervising guard, which he can change later. He then proceeds to the book selection screen after skipping the disclaimer, browsing books while waiting for his wife to log in on their end. They eventually log in & one of his children recommends a book to read to them by Dr. Seuss. Jerome chooses the book and proceeds to read to them, taking time in between playfully explaining the illustrations and reading in an enthusiastic tone to keep them engaged. Once Jerome finishes the book, he takes a little bit of time to catch up with his children before selecting the next book to read. At the end, the family reads 3 children’s books together and have already decided what books to read next week.

## Actor

[This subsection lists the various actors that will interact with the proposed system, along with the interactions that these actors may perform. An actor is a person, or other entity external to the software system, who may interact with the proposed system to accomplish tasks. Actors may represent roles, identified from the customer community that will use the product.

*The following is a template for documenting user classes and the associated use cases.*]

|  |  |
| --- | --- |
| Primary Actor | Use Cases |
| Incarcerated Parents | 1. *Log into the system* 2. *Greet their child(ren)* 3. *Scroll through pages of books*   *…* |
| Their Children | 1. *Log into the system* 2. *Greet their parent*   *…* |
| *Children’s Guardian* | 1. *Monitor the child(ren) during the meeting.* 2. *Help the children get logged in and ready* |

## Use Cases

*[This subsection contains use cases of the proposed system. Use cases can be “casual” or “fully dressed”. The template given is for a fully dressed use case. Omit portions of this template for casual use cases.*

### *[Use Case Name]*

|  |  |  |  |
| --- | --- | --- | --- |
| *Created By:* | *Name 1* | *Last Updated By:* | *Name 2* |
| *Date Created:* | *Month dd, yyyy* | *Date Last Updated:* | *Month dd, yyyy* |
| *Actors:* | Incarcerated parents and their children | | |
| *Description:* | Users will log into the system at set times and the parent will read a book to the children. | | |
| *Preconditions:* | 1. *Precondition 1 or “none”* 2. *…* | | |
| *Postconditions:* | 1. *Postcondition 1 or “none”* 2. *…* | | |
| *Normal Flow:* | *1.0 Description phrase*   1. *Log in* 2. *Greetings* 3. *Choose a book* 4. *Read the book* | | |
| *Alternative Flows:* | *1.1 Description phrase for alternative flow (branch after step n)*   1. *Cannot remember log-in info (children/guardians)* 2. *Answers security questions* 3. *Return to log in screen with new username/password* 4. *If an inmate forgets their log-in info, they can request assistance from staff. Their username should never change.*   *n. Return to Step m.*  *1.2*   1. *…* | | |
| *Exceptions:* | *1.0.E.1 Description phrase for exception (at step k)*   1. *Step 1.* 2. *Step 2.*   *…*  *1.0.E.2 Description phrase for 2nd exception (at step j)*  *1. …* | | |
| *Includes/Extends:* | *Name of included use cases, name of the use cases that this use case extends, or “none”* | | |
| *Priority:* | *Low, medium or critical* | | |
| *Frequency of Use:* | *Depends on scheduled times.* | | |
| *Business Rules:* | *Business rules can be listed, or another document can be referenced, or “none”* | | |
| *Special Requirements:* | 1. *Special requirements 1 concerning this use case.* 2. *…*   *or “none”* | | |
| *Assumptions:* | 1. *Assumption 1 concerning this use case.* 2. *…*   *or “none”* | | |
| *Notes and Issues:* | 1. *Note 1 concerning this use case.* 2. *…*   *or “none”*  *This can serve as a placeholder for extraneous information.* | | |

### *[ Use Case Name 2]*

*…*

# Specific Requirements

*[The Specific Requirements section should contain all the requirements for the subject software. The details within this section should be defined as individual, specific requirements. Each specific requirement should be stated such that its achievement can be objectively verified by observation, inspection, usability testing, functional testing, analysis, or a combination of these. The method verification must be described. Each requirement should be clearly identified for tracking.]*

## Functional Requirements

*[This subsection should specify how the software product will react to every possible input situation. It describes all the actions that must take place in the software in response to every input. Pertinent changes in the environment are considered to be inputs.*

*Care must be taken to avoid dropping into design details. In the user cannot directly experience the effect of a requirement it probably crossed the line into design.*

*Functional requirements should be logically grouped. Each group should have a short, unique (within the SRS) abbreviation and a number. The word processing section number will probably change as the SRS is developed.*

*For each identified requirement an optional rationale for that requirement may be given.*

*Most modern software should provide at least a modicum of user help. For very complex applications in situ help may be supplemented by a user’s manual (or manual page) but for many simple applications comprehensive in situ help is sufficient.]*

*Functional*

Login screen

Extensive book selection/search screen

Volume slider with mute button

Two-way camera

Timer

Disclaimer screen

Back button

Login/logout button

Password reset screen

Time-remaining prompt

Camera on/off toggle

Account security questions

Page turn buttons

Automatic log-off

Page search

Users will start by logging on using their username and password. An inmate will always have their username since it will be their prison ID, but if the password is forgotten, there is an option to answer some security questions to reset it. If the children’s username or password are forgotten, similar steps can be taken. After logging on, there will be a home screen where the book library can be found. This is also where the parent and child will be able to see one another using the camera at the top-right of the screen. Once the scheduled meeting time commences, a timer for one hour will begin. The parent will read to their child during this time. Once 5 minutes remain, a warning will be displayed on the screen, giving time to say goodbyes.

## Quality Attributes

*[This subsection specifies criteria used to judge the operation of a system, rather than specific behaviors of the system. Specify the specific behavior of the system in the functional requirements.]*

### Availability

Meeting times will be scheduled in advance. The software cannot be used at any other time.

### Human Factors

*[Not everyone has the same inherent mental and physical capabilities vis-à-vis a given computer application. For example if sound is part of the application, will other clues be given that will enable a hard of hearing user to use the proposed application as well as person with normal hearing; similarly for color blindness. Define these factors, if necessary, with validation criteria.]*

There will be quality of life settings, such as increasing the font size/type, volume slider, color-blind settings, changing the size of the camera screen, and more.

### Usability

The software will only be used by approved personnel. Nobody else should be able to access it. If an unauthorized person is noticed, this will indicate a security breach (inmates could be communicating with people that they shouldn’t be).

### Performance

The software will be designed to run on specific hardware (the tablets), so performance should be good.

### Security

The tablets will only be authorized to run the software, and the inmate will be monitored for the duration of the meeting. Only approved devices for the children.

### Reliability

Low Priority

### Maintainability

Funding does not support maintainability

### Enhanceability/Extendibility

*[If the future it might be necessary to change the Functional requirements in specified ways, what is the maximum estimated effort required to make such changes and what is the rationale for this estimate?]*

Funding does not support.

### Portability

No need to port to anywhere else.

### V&V Activities

n/a

### Adaptability

n/a

## Non-Functional Requirements Which Are Not Quality Attributes

*[This subsection specifies non-functional criteria such as platform, deployment, interface, design and document requirements. If there is not a document describing project requirements, those requirements (cost, schedule, etc.) can be placed here.]*

*Non-functional*

* Have software run on proprietary hardware/tablets for prisoners to prevent unintended use by inmates
* Prison guard supervision to monitor prisoner behavior in case of malicious conversations

### External Interface Requirements Runs on tablets at the institution for the parent and an approved device for the children.

#### Hardware

#### Software

#### Communications

### Development Environment

Has to connect via normal network connection used at institution

### Delivery Environment

#### Site

*[This subsection should specify any requirements for installation or operation of the software that might change the pre-existing configuration of the user site.]*

Outside users need a special code to download the software that cannot be used by anyone else.

#### Operations

*[This subsection should specify normal and special operations required by the user to include:*

* *Various modes of operation within the user organization*
* *Periods of interactive operations and unattended operations*
* *Data processing support functions*
* *Backup and recovery operation.]*

### Design Constraints

*[Sometimes a client will require certain design constraints, for example the use of a certain system configuration or the use of particular algorithm. Such constraints are described in this subsection.]*

### Database

*[This optional subsection specifies requirements for any database to be developed as part of the product. The information in this section may include:*

* *Types of information to be stored*
* *Table attributes (queried, supporting, updated)*
* *Frequency of access*
* *Accessing capabilities and requirements*
* *Data elements and file descriptors*
* *Retention requirements for data.]*

*Take care to avoid design details. Unless so requested by the client, this section should only contain as much information about saved data as is necessary to fully document any of the requirements given above.]*

A database of the users (aside from the incarcerated, because the prison should already have something like that) will be created.

### Deliverable Items, Dates and Conditions

Key to download the software on an approved device, meeting times scheduled.

### Cost

### Funding will be from the department of education.

### Standards

# Future Enhancements

*[This section should describe any future enhancements that are contemplated at the time this SRS completed. If there is no known possibility that this product will be enhanced in the future this section should read :* It is not expected that there will be any future enhancements to this product.*]*

N/A

# Appendices

*[In some cases, it is helpful to move items out of the main portion of the Software Requirements and Specification Document. These items can appear here. Alternatively, move these items into the main part of the document.]*

# Appendix A: Definitions, Acronyms, and Abbreviations

*[This appendix should provide the definitions of all terms, acronyms, and abbreviations required to fully understand your SRS.]*

## Definitions

|  |  |
| --- | --- |
| software failure | a failure will be attributed to this software product whenever one of the delivered work products does not meet the requirements specified in this SRS, or does not meet ordinary and reasonable customer/user expectations. |

## Acronyms and Abbreviations

|  |  |
| --- | --- |
| DB | Database |
| HW | Hardware |
| SDD | Software Design Description |
| SRS | Software Requirements Specification |
| SW | Software |

# Appendix B: Analysis Models

*[Optionally, include any pertinent analysis models, such as activity diagrams, state-transition diagrams, entity-relationship diagrams, or a formal specification.]*

# Appendix C: Data Dictionary

*[The data dictionary defines the composition of data structures and the meaning, data type, length, format, and allowed values for the data elements that make up those structures. In many cases, storing the data dictionary as a separate artifact, rather than embedding it in an SRS is beneficial. This also increases its reusability potential in other projects.*

*List data items alphabetically. Make each name a bookmark so each time the name occurs in this SRS it can be link to this entry via a hyperlink. Choose names with care. The expectation is that these names will persist in the design and implementation.]*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Data Element | Description | Composition or Data type | Length | Values |
| *Usernames* |  | *String* | *N/A* | *Must start with a letter and not contain spaces.* |
| *Passwords* | *…* | *String* | *Minimum 10, maximum* | *…* |

# Appendix D: Report Specification

*[This optional appendix contains descriptions of reports that the system needs to generate. Many applications involve generating reports from one or more databases, files or other information sources. Exploring the content and format of the reports needed is an important aspect of requirements develop. Describe the contents and layouts of each report, including changes being made in an existing version of the report. Indicate the conditions that will trigger generating the report (e.g., manual or automatic) the timing of report generation, and the disposition of the report, such as to whom it is sent or where it is stored.*

*Use the following template to document business rules.*

|  |  |
| --- | --- |
| Report ID: |  |
| Report Title: |  |
| Report Purpose: |  |
| Data Sources: |  |
| Frequency and Disposition: |  |
| Latency: |  |
| Visual Layout: |  |
| Header and Footer: |  |
| Report Body: |  |
| End-of-Report Indicator: |  |
| Interactivity: |  |
| Security Access Restrictions: |  |

If appropriate, provide a mock-up or a sample of the report, or an illustration of a similar existing report, showing the desired layout. ]

# Appendix E: Business Rules

*[This optional appendix describes business rules that are relevant to the proposed system. Use the following template to document business rules.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ID | Rule Definition | Type of Rule | Static or Dynamic | Source |
| *BR-1* | *Definition 1* | *Fact, constraint, computation* | *Static or dynamic* | *Name, role or document* |
|  | *…* | *..* | *…* | *…* |

*]*

# Appendix F: Sample User Interface

*[If a sample user interface exists, place it here. Make it clear that this user interface is only an example. If something is required in the user interface, state that earlier in this document.]*

[*https://github.com/Hammah808/Prototype-Documents*](https://github.com/Hammah808/Prototype-Documents)

# Appendix G: Issues

*[This optional appendix is a dynamic list of the open requirements issues that remain to be resolved, including TBDs, pending.]*