**Software Requirements Specification**

**for**

**<Project>**

**Version 1.0 approved**

**Prepared by <author>**

**<organization>**

**<date created>**

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**Revision History**

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| --- | --- | --- | --- |
| **Name** | **Date** | **Reason For Changes** | **Version** |
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|  |  |  |  |

* **Introduction**
* **Purpose**

*<Identify the product whose software requirements are specified in this document, including the revision or release number. Describe the scope of the product that ++single subsystem.>*

* **Product Scope**

*<Provide a short description of the software being specified and its purpose, including relevant benefits, objectives, and goals. Relate the software to corporate goals or business strategies. If a separate vision and scope document is available, refer to it rather than duplicating its contents here.>*

*the product is going to be database made for a libaryer to keep track of the books*

*the produce is going to help in finding the availbalty of the book and who is renting the product for how long*

* **Overall Description**
* **Product Perspective**

*<Describe the context and origin of the product being specified in this SRS. For example, state whether this product is a follow-on member of a product family, a replacement for certain existing systems, or a new, self-contained product. If the SRS defines a component of a larger system, relate the requirements of the larger system to the functionality of this software and identify interfaces between the two. A simple diagram that shows the major components of the overall system, subsystem interconnections, and external interfaces can be helpful.>*

*the product will not be linked to any previous software familys*

* **Product Functions**

*<Summarize the major functions the product must perform or must let the user perform. Details will be provided in Section 3, so only a high level summary (such as a bullet list) is needed here. Organize the functions to make them understandable to any reader of the SRS. A picture of the major groups of related requirements and how they relate, such as a top level data flow diagram or object class diagram, is often effective.>*

*the database will be an import part of the libaryer to check up on*

*.checking the if a product is available*

*.how long the product will be rented*

*.find the location of a product in the libaryer*

*.*

* **User Classes and Characteristics**

*<Identify the various user classes that you anticipate will use this product. User classes may be differentiated based on frequency of use, subset of product functions used, technical expertise, security or privilege levels, educational level, or experience. Describe the pertinent characteristics of each user class. Certain requirements may pertain only to certain user classes. Distinguish the most important user classes for this product from those who are less important to satisfy.>*

*there will be two classes and one of them is staff which will allow staff members to check books and location of bookss and to make minor change such as add or remove a book from a system.the second is going to be an admin who will get access to the code and will be able to make major changes in the system and to*

*be able to increase security in a system.*

* **Operating Environment**

*<Describe the environment in which the software will operate, including the hardware platform, operating system and versions, and any other software components or applications with which it must peacefully coexist.>*

*the database system will be on chrome which can be used on laptops computers and phones as long the hardware has chrome you will be able to use it but you cant use it on any different broweser*

* **Design and Implementation Constraints**

*<Describe any items or issues that will limit the options available to the developers. These might include: corporate or regulatory policies; hardware limitations (timing requirements, memory requirements); interfaces to other applications; specific technologies, tools, and databases to be used; parallel operations; language requirements; communications protocols; security considerations; design conventions or programming standards (for example, if the customer’s organization will be responsible for maintaining the delivered software).>*

*the database cant be accessed by someone who is not using the libaryers wifi and who is not using chrome they will also have to be a staff or an admin to access it at all*

* **User Documentation**

*<List the user documentation components (such as user manuals, on-line help, and tutorials) that will be delivered along with the software. Identify any known user documentation delivery formats or standards.>*

* **Assumptions and Dependencies**

*<List any assumed factors (as opposed to known facts) that could affect the requirements stated in the SRS. These could include third-party or commercial components that you plan to use, issues around the development or operating environment, or constraints. The project could be affected if these assumptions are incorrect, are not shared, or change. Also identify any dependencies the project has on external factors, such as software components that you intend to reuse from another project, unless they are already documented elsewhere (for example, in the vision and scope document or the project plan).>*

* **External Interface Requirements**
* **User Interfaces**

*<Describe the logical characteristics of each interface between the software product and the users. This may include sample screen images, any GUI standards or product family style guides that are to be followed, screen layout constraints, standard buttons and functions (e.g., help) that will appear on every screen, keyboard shortcuts, error message display standards, and so on. Define the software components for which a user interface is needed. Details of the user interface design should be documented in a separate user interface specification.>*

*when you first open the website you will greeted with the libaryers font and an area where it says above it (please type your ID) there will be a button that says (login in) after that if it was successful you will be redirected to a new page and if you fail you will be given a message saying (please check if you made any mistakes while typing).if you are using a phone it will operate as the desktop version*

* **System Features**

*<This template illustrates organizing the functional requirements for the product by system features, the major services provided by the product. You may prefer to organize this section by use case, mode of operation, user class, object class, functional hierarchy, or combinations of these, whatever makes the most logical sense for your product.>*

* **System Feature 1**

*<Don’t really say “System Feature 1.” State the feature name in just a few words.>*

3.3.1 Identifier (A unique identifier for this feature, e.g. UC10)

time rented

3.3.2 Description and Priority

*<Provide a short description of the feature and indicate whether it is of High, Medium, or Low priority. You could also include specific priority component ratings, such as benefit, penalty, cost, and risk (each rated on a relative scale from a low of 1 to a high of 9).>*

*the feature will be in the high priority catigory at around 7 because the libaryer will need to keep notes on who and how long he/she is renting a product and if they are late returning the product.*

3.3.3 Stimulus/Response Sequences

*<List the sequences of user actions and system responses that stimulate the behavior defined for this feature. These will correspond to the dialog elements associated with use cases.>*

*the person using the database will have to open a list containing whos renting the book and then delet someones name if they returned it in time by the database will put a pritorty on who did not return the book so when they open the time rented they will on the top of the page*

3.3.4 Functional Requirements

*<Itemize the detailed functional requirements associated with this feature. These are the software capabilities that must be present in order for the user to carry out the services provided by the feature, or to execute the use case. Include how the product should respond to anticipated error conditions or invalid inputs. Requirements should be concise, complete, unambiguous, verifiable, and necessary. Use “TBD” as a placeholder to indicate when necessary information is not yet available.>*

*<Each requirement should be uniquely identified with a sequence number or a meaningful tag of some kind.>*

REQ-1: i*f the staff typed someones name or book that is not getting rented nothing will show*

REQ-2:the name of the person whos renting the product or the product name or code

* **System Feature 2 (and so on)**

*Renting and availbe products*

*this feature will be added to high priority category 8 this feature will show whos renting a product while also showing you if there is a copy of the product*

*the staff or user will have to insert the name of the product and will show you whos renting it and if there copies of the same product in the inventoure*

*REQ1:if user inserted a name of a product that does not exist in the database system nothing will show up in search menu*

*REQ2:the user will have to search the product name to find it or a barcode that is made for the product*

*. system feature 3*

*limation*

*this feature will be in the medium priority category 5 this feature will stop someone from trying to write their ID too no many times*

*if the user types the ID number more then 5 times they will be locked out for 2min from trying to access the database and if they failed again 5 more times after the 2 min waiting time they will be blocked they will have to contanct a admin to get access again*

*REQ1:the user will have to type in the right ID number so that they can continue*

*REQ2:if the user has failed too many time they will have to contanct an admin to give them access again*

*System feature 4*

*categorizing*

*this feature will be very importent so the pritorty will be at a level 9 where it will keep everything orgainzied and will help pull out any book that you looking for*

*the user will have to type information about a book so that they can find it either by putting the name of the authour or the ISBN number and the type of product that they are looking for and number pages,speical release,production date,type of genre,date of publishing.*