Page 1: Function Requirement Document.

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Name	**Date**	**Reason for Changes**	**Version**

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1.0 Introduction

1.1-Purpose

[Identify the solution (Product or application or project) whose requirements are specified in this document, including the revision or release number. Describe the scope of the solution that is covered by this FRD, particularly if this FRD describes only part of the solution or a component of the solution or a single subset.]

1.2- Document Convention

[Describe any standards or typographical conventions that were followed when writing this FRD, such as fonts or highlighting while that has typical significance. For example, state whether priorities for higher-level requirements are assumed to be inherited by detailed requirements, or whether every requirement statement will have its own priority.]

1.3- Intended Audience and Reading Suggestion

[Describe the different types of reader that the document is intended for, such as business stakeholders, developers, project managers, marketing staff, users, testers, document writers and so on. Please specify the roles not the name of the readers

Describe what the rest of this FRD contains and how it is organized. Suggest a sequence for reading the document, beginning with the overview sections, and proceeding through the sections that are most pertinent to each reader type. Example – Invoice generation system requirement for different job roles]

1.4-Solution Scope

[Invoice generation system is requirement for all departments of business, but this document covers only invoice print system for office managers. Provide a short description of the solution being specified and its purpose, including relevant benefits, objectives, and goals. Relate the solution to corporate goals or business strategies.

If a separate version and scope document is available, refer to it rather than duplicating its content here. FRD that specifies the next release of an evolving product should contain its own scope statement as a subset of the long-term strategic product version]

1.5 – References

[List any other documents or web addresses to which this FRD refers. These may include user interface style guide (corporate usability guide), contracts, standards (IT development standards), system requirements specifications, use case documents, or a vision and scope document. Provide enough information so that the reader could access a copy of each reference, including title, author, version number, date, and source of location.]

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2.0 Overall Description

2.1 Solution Perspective:

[Describe the context and origin of the Solution being specified in this FRD. For example, state whether this solution/product is a follow-on member of a solution/product family, a replacement for certain existing systems, or a new self-contained product/component/solution

If the FRD 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 interference can be helpful]

2.2 – Solution Features

[Summarize the major features the solution contains or the significant functions that it performs or let the user perform. Details will be in Section 3, so only a high-level summary is needed here. Organize the functions to make them understandable to any reader of the FRD. A picture of the major groups of related requirements and how they relate, such as a top-level data flow diagram or a class diagram, is often effective.]

2.3 – User classes and characteristics

[Identify the various user classes that you anticipate will use this solution. User classes may be differentiated based on frequency of use, subset of product/solution 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 favored user classes from those who are less important to satisfy.]

- Account holders/ Users transferring the fund (ongoing basis)
- Bank managers Approving the high-volume transfers (Once a day)
- Technical support desk providing technical services to the customers (ongoing basis)
- Auditors auditing the transfers/ technical problems (Once a week)

2.4 – Operating Environment

[Describe the environment In which the solution (Product/software/application) will operate, including the hardware platform, operating system and versions, and any other software/ components or applications with which it must peacefully coexist.]

- Windows 7.0 and above
- Mac OS 10.0 and above

(Ensure that you have compatibility at least one version less than latest version)

2.5 – Design and Implementation Constraints

[Describe any items or issues that will limit the options, 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).]

- Will work only in high-secured environment/ internet browser
- It will work only IE 7.0 and later version or Safari 10.0 and later or Google chrome
- It will have secured communication through "https"

2.6 - User Documentation

[List the user documentation components (such as ser manuals, on-line help, and tutorials) that will be delivered along with the solution. Identify any known user documentation delivery formats or standards.]

The solution comes with help menu that will help customer to navigate the solution effectively. There will be additional technical support document for technical support team to provide the service to the customer. There will be manual added to admin of this solution that contains – batch process, date backup – batch process, data backup, and technical and user training.

2.7 – Assumptions and Dependencies

(There are business and technical assumption to the listed. These assumptions are considered to be true.

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

2.8 – System Features

[This template illustrates organizing the functional requirements for the solution by systems features, the major services provided by the solution (product, software or application). 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 solution]

2.9 – System Feature 1.

[Don't really say "System feature 1." State the feature name in just a few words,]

2.9.1 – 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 benefits, penalty, cost, and risk (each rated on a relative scale from a low of 1 to a high of 9)]

2.9.2 – 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.]

2.9.3 – User Stimulus or action – transfer fund.

Response – successful (Transfer ID, account updated, and information send to the customer)/ failure (reason of the failure)

2.9.4 – Functional Requirement

[Itemize the detailed functional requirements associated with this feature. These are the solution capabilities that must be present for the user to carry out the services provided by the feature, or to execute the use case or functionality. Include how the solution should respond to anticipated error conditions or invalid inputs

Requirements should be verified for the quality by using these parameters concise, complete, un-ambiguous, 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.]

2.9.5 – High Level requirement (Ticket Booking)

	Items	Description
1	Req	Book a ticket
2	Desc	Customer should be able to book a ticket online using his/her credit/debit card/ PayPal account.
3.	Last Updated	June 21st, 2016
4.	Pre-condition	TBD* (customer must be on a website)
5.	Post condition	Ticket details are displayed with valid confirmation number + details are updated at the relevant nodes (pls provide the details) or Failure description are displayed in case the failure
6.	Assumption	The user has computer, internet, and online payment option
7.	Constraints	All the servers (travel portal, payment gateway and airlines gateway) are working
8.	Basic Flow	1.Select "one-way" or "round-trip" or "multicity" 2.Select or enter "From" and "To" city (if 'one way' is selected the return calendar will be disabled) 3.Top destination or city names are listed in drop-down many ither cities are listed alphabetically, and system will provide auto-fill functionality for cities. 4.Select "Departure-Date" and "Return-Date" through a calendar only

		5.If customer selects “one-way”, disable “Return-Date” calendar. 6.Select number of passengers (Provide this in three category options and allow customers to use incremental options for all three categories: Adult (above 11), child (2-11), and infant (0-2) 7.Select class from (Economy, Premier Economy, Business and First class) 8.System will display all available flights on that day. 9.They are listed as lowest price first. 10.Customer will select a flight using radio button option 11.Customer will provide passenger details. 12.Customer will select confirmation and proceed to payment on third party gateway (example: bill desk) site 14.The ticket is booked once third-party payment gateway (example: Bill-Desk) sends payment confirmation details to the system. Airline system generates and sends the ticket and PNR number and the internal system generates and sends the ticket-confirmation mail.
9	Alternate Flow	Book a ticket via phone booking options using basic flow
10	Exception	Failure – payment issue, server connectivity, user abort the process in mid-way
11.	Bizz Rule	Current date onwards till next six months ticket can be booked**
12.	Model	Process Diagram
13.	Priority	High
14.	Status	Approved
15.	Comment	Nil
16.	Author	Operation Manager
17.	UC	3456
18.	Input data	One way or Round Trip, from and to City Names, Dates, Bizz/Eco class, Select the flight, Customer details, confirmation*
19.	Output Data	Confirmation number + customer name + ticket details

13. Input data

#	Item	Description	Function	Data Type	Sample Data
1	Trip Type	One way or round trip	Radio-button	On/off	Yes/No
2	Date	Date Functionality using calendar	Auto-Input Box	Date (DD/MM/YYYY)	19/06/2016
3.	City	From or to city	Input-box	Var Char (16)	Mumbai

REQ-2: Detailed Requirement (Seat Selection)

#	12345
Requirement:	Seat Selection
Description:	Allow Customer to select a sear after ticket confirmation
Dependency	Ticket Booking and PNR
Pre-condition	Customer must have PNR number
Post-condition	The selected seat must be blocked
Success Criteria	Seat is not selected, call the CC
Input Data	PNR number + seat number
Output Data	Selected seat is blocked/allotted

Data Format	Yes/No(bullion)
Business Role	- Once seat is blocked it is not available for another customer - If the ticket is cancelled, tat seat is automatically unblocked
Assumption	Real time updating
Constraints	Server availability
Priority	Medium
Status	Under consideration
Comments	Xyz

2.8 – Business Rules for Date Selection:

- Previous dates must be disabled with grey color

-Ticket must be booked with current time + 4 hours onwards

- Ticket will be shown upto six months

2.9 – System Feature 2 (and so on)

2.91 – external Interface Requirements

2-92 – User Interfaces

[Describe the logical characteristics of each interface between the software solution / 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, button 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.]

2.9.3 – Hardware interfaces

[Describe the logical and physical characteristics of each interface between the software product and the hardware components of the system. This may include the supported device type the nature of the data and control interactions between the software and the hardware, and communication protocols to be used.]

2.9.4 – Software Interfaces

[Describe the connections between this product and other specific software components (name and version), including databases, operating system, tools, libraries, and integrated commercial components. Identify the data items or messages coming into the system and going out and describe the purpose of each. Describe the services needed and the nature f communications Refer to documents that describe detailed application programming must be implemented in a specific way (for example, use of global data area in a multitasking operating system system), specify this as an implementation constraint.]

2.9.5 – Communication interface

[Describe the requirements associated with any communication function required by this software solution or. product that includes e-mail, web browser, network server communications protocols, electronic forms, and so on. Define any pertinent message formatting. Identify any communication

standards that will be used such as FTP or HTTP or HTTPS. Specify any communication security or encryption issues, data transfer rates and synchronization mechanisms.]

2.10 – Other Non-functional requirements

[If there are performance requirements for the product under various circumstances, state them here and explain their rationale, to help the developers understand the intent and make suitable design choices. Specify the timing relationships for real time systems. Make such requirements as specific as possible. You may need to state performance requirements for individual functional requirements or features.]

2.10.2 – Safety Requirements

[Specify the requirements that are concerned with possible loss, damage, or harm that could result from the use of the software solution or product. Define any safeguards or actions that must be taken as well as actions that must be prevented Refer to any external policies or regulations that state safety issues that affect the product. Define any security or privacy certifications that must be satisfied.]

2.11 – Other Requirements

[Define any other requirements not covered elsewhere in the FRD. This might include database - requirements, internationalization requirements and legal requirements reuse objectives for the project and so on. Add any new Add any new sections that are pertinent in the project]

2.12 – Appendix A; Glossary

[Define all the terms necessary to properly interpret the FRD, including acronyms and abbreviations. You may wish to build a separate glossary that spans multiple software solutions or the entire organization, and just include terms specific to a single project in each FRD]

Appendix B: B: Analysis Models

[Optionally, include any pertinent analysis models, such as data flow diagrams, class diagrams, state-transition diagrams, or entity-relationships diagram]

Appendix C: Issues List

[This is a dynamic list of the open requirements issues that remain to be resolved, including TBDs, pending decisions, information that is needed, conflicts awaiting resolution, and the like]