

Exp No: 1A Functional Requirements for online voting system

Aim :- To perform analysis of the given problem statement for listing the functional requirements of online voting system

problem statement :

(i) current offline voting system status :

Today, only about 2 percent of the population votes at polling places on hand counted paper ballots, but this figure is misleading.

There are many elections conducted on optical mark-sense ballots that are actually hand counted.

(ii) New technology :

Today, an increasing fraction of the direct-recording electronic voting machine on the market include provisions to network all of the voting machine in one polling places.

Functional Requirements

Admin : This use case is the starting point for any interaction with the information system general use case specialized for organizers, i.e. "authorize organizer".

* Manages Election Districts : create, view and modify different set of election districts

for one or more election procedures.

* user-Interface : The system shall provide an easy-to-use user-interface. Also, it shall not disadvantage any candidate while displaying the choices.

* Manage Electronic units : import, insert, view and modify electors for one or more election procedure.

* Support for Disabled voter. The system shall cater to the needs of physically challenged voters

Eligibility : only Authorized voters, who are registered, should be able to vote
voter confirmation

The voter shall be able to confirm clearly how his vote is being cast, and shall be given a chance to modify his vote before he commits it

Result:

The given problem, Statement is analysed and various functional requirements are listed

Functional Requirements for Library Management System

Aim: To perform analysis of the given problem statement for listing the functional requirements

problem Statement: Several problem such as inadequacy of infrastructure and hardware, problem in software, lack of trained and skilled staff and lack of funds.

Library information system:

The library management system software helps in reducing operational costs. Managing a library manually is labor intensive and an immense amount of paperwork is involved.

Functional Requirements:

Administrator must be able to:

- provide the information regarding books.
- Search for the required books from database
- Add new book to database
- update the number of books in database
- Enter date of issued book in Database
- information of returned book.

* Manages Electronic the branch of books accordingly
and modify for one of department

* user requirements:

an → Allow user to view quick reports like book issues/returned etc

→ Stock verification in different criteria or according to different categories

New user registration:

Any member of the institute who wishes to avail the facilities of the library has to register himself with the library information system.

Search book:

The system must be able to search the database based on select search type, must be able to filter book based on keyword entered and must be able to show the filtered book in table view

Issue books and return books:

The system must be able to enter issue information in database, must be able to update number of books, must be able to search if book is available or not.

Renew the book:

If the time exceeds beyond the time limit of the management then one can be able to renew the book for next few days that is avoids of extra payment.

Result:

The given problem statements is analysed and various functional requirements are listed

Exp NO: 1C Functional Requirements

For online shopping system

Aim: To perform analysis of the given problem statement for listing functional requirements

problem statement:

offline shopping system: It include the customer efforts to shop the items and it make the customers in convience, ineffeciency.

online shopping system: The functional & Non-functional requirements were mentioned below to assure.

online shopping system:

online shopping is a form of electronic commerce which allows consumers to

online help :

when the customers are need a help
the system will provide the online help

- Administrative :

- Administrator must be able to add / modify
Customer. System must be able to accept orders
from the customer via email or online
form.

Results: The given problem statements is
analysed and various functional requirements are
listed.

NON-Functional Requirements for
online voting system.

- Aim :- To perform analysis of the given
problem statements for listing the non-
functional requirements.

Problem statements:

(i) current offline voting system Status:

Today, only about 1 percent of the
population votes at polling places on hand
counted paper ballots, but this figure
is misleading.

(ii) New technology:

Today, an increasing fraction of the direct-recording electronic voting machines on the market including

online voting system:

online voting system protect the integrity of the votes from being able to vote multiple times.

Non-Functional Requirements:

Vote Authenticity:

Ensure that the voter must identify himself to be entitled to vote.

Accuracy:

The system shall record and count all the votes.

Uniqueness: No voter should be able to vote than once.

Audit ability: It should be possible

to verify that all the votes have been correctly accounted for in the final Electoral tally.

Voter Anonymity:

Ensure that votes must not be

associated

System integrity :

Ensure that the system can't be reconfigured during operation.

-Availability:

Ensure that system especially the vote - casting equipment shall be open source, so that it can allow external inspection.

System Disclosability:

The core of the system especially the vote - cast open source, so that it can allow external inspection and auditing.

System Accountability:

Ensure that system operation are logged and audited

personal Integrity:

Those developing and operating the voting system should have unquestionable records of behavior

Result:

The given problem's Statement is analysed and various non-functional requirements are listed.