almightycreation

Delivering Digital Experiences

AC
almightycreation
Presents
IQ LIBRARY
My IQ My Life

PURPOSE

This is the Software Requirements Specification (SRS) for the IQLIBRARY. The purpose of this document is to convey information about the application's requirements, both functional and non-functional, to the reader.

This document provides:

a) A description of the environment in which the application is expected to operate.
b) A definition of the application's capabilities.
c) A specification of the application's functional and non-functional requirements.

The document is intended to serve several groups of audiences:

- First, it is anticipated that the SRS will be used by the application designers. Designers will use the information recorded here as the basis for creating the application's design.
- Second, the client for the project, the library manager in our case, is expected to review this document. The SRS will serve to establish a basis for agreement between the client and development team about the functionality to be provided by the application.
- Third, the application maintainers will review the document to clarity their understanding of what the application does.

SCOPE OF PROJECT

The purpose of this software development project is to create a new application called: IQLIBRARY. The client for this project wishes to enter the PC-based internet environment. The IQLIBRARY will be PC-base with a internet, allowing library users to search for books, articles, recipes and library staff members to manage the book inventory and user database. The application will provide the following capabilities:

- The application will be access via a internet on a PC only in IQLIBRARY IT Lab.
- Library staff will be able to manage library user accounts including remove, change, and add.
- Library staff will be able to manage the book inventory database including remove, change, and add.
- The application will generate reports for administrative purposes.
- The application will provide search function on books based on ISBN, subject, title, or author.

The project's client has determined that this application will provide the following benefits:

- Provide additional flexibility and convenience to the library users.
- Provide better reliability and security of the library information.
- Provide a more productive environment for the library staff member.
- Reduce the cost of the library operations.
- The availability of information at any time in IQLIBRARY mobile app on request.

USER CHARACTERISTICS

The three types of user for the **IQLIBRARY** are:

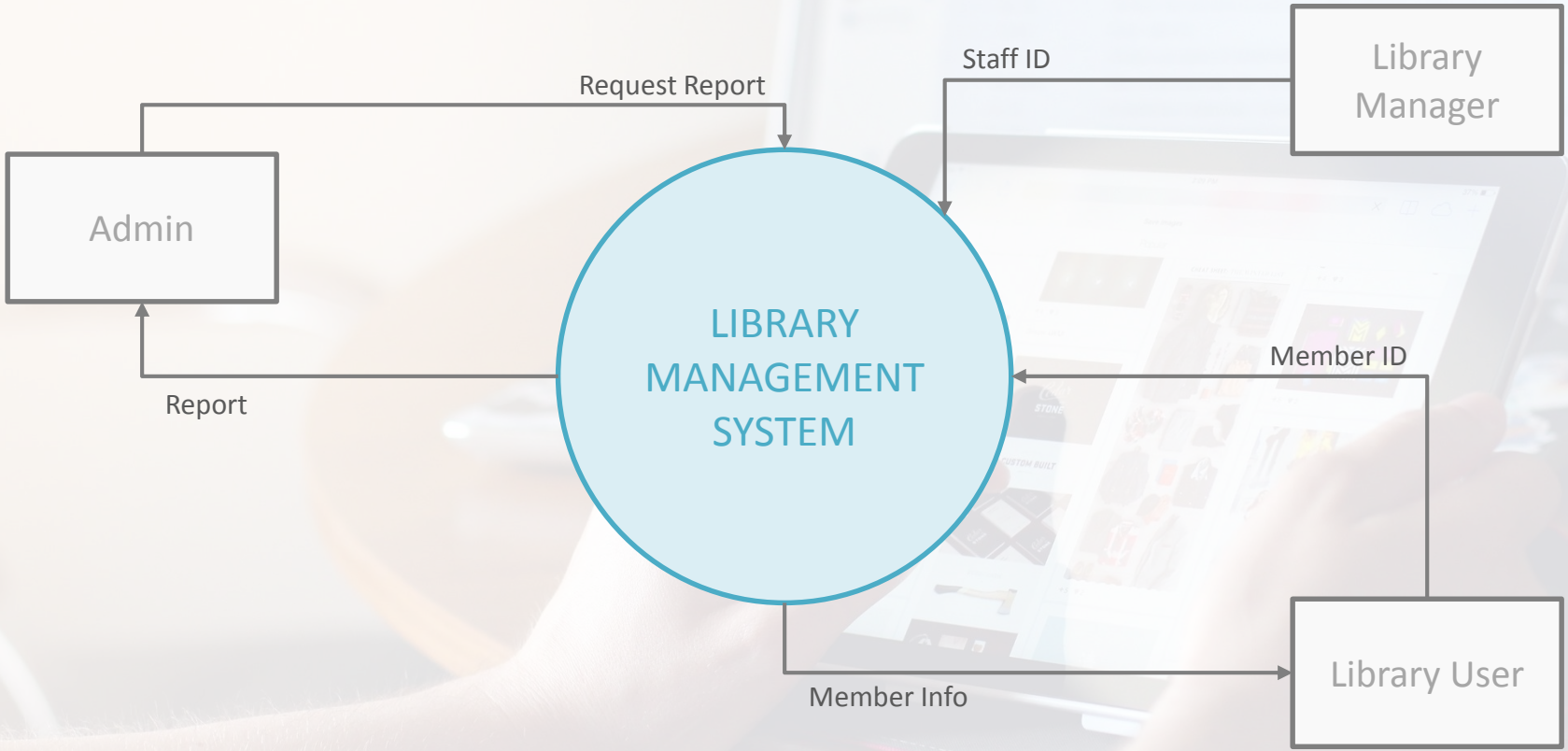
1. Admin
2. Library Manager
3. Library User

The following table describe general users characteristics that will affect the functionality of the software product.

USER CHARACTERISTICS

Type of User	User Characteristic	User Technical Expertise	How the user characteristic and technical expertise affect IQLIBRARY functionality
Admin	• Good understanding to IT lab operation and hardware/software troubleshooting • Responsible to manage technical issues	High in technical proficiency	• User interface with less input steps • Easy to learn
Library Manager	• Good understanding to library operation • Responsible for library operation	Average in technical proficiency	• User interface with less input steps • Easy to learn
Library User	**(Diverse user characteristic)** Students, Faculties and General Readers tends to find books in their specification and download material Will not have any formal training to use the system.	Student and Faculty has a lot of exposure to Windows type application	• GUI interface may be easier to learn than text interface • Provide system help • Provide appropriate error messages for invalid user inputs

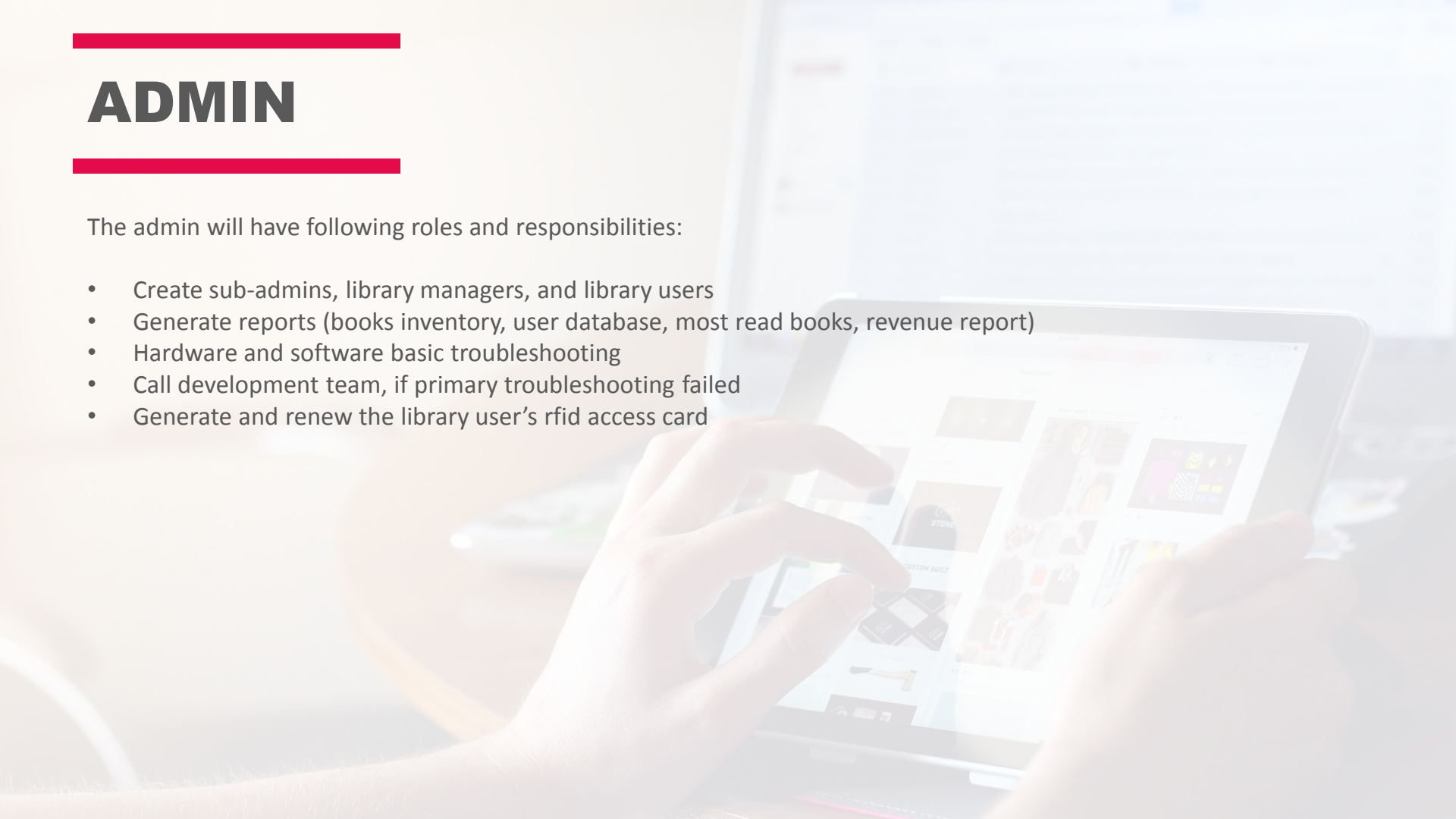
CONTEXT DESIGN



ADMIN

The admin will have following roles and responsibilities:

- Create sub-admins, library managers, and library users
- Generate reports (books inventory, user database, most read books, revenue report)
- Hardware and software basic troubleshooting
- Call development team, if primary troubleshooting failed
- Generate and renew the library user’s rfid access card



LIBRARY MANAGER

The library manager will have following roles and responsibilities:

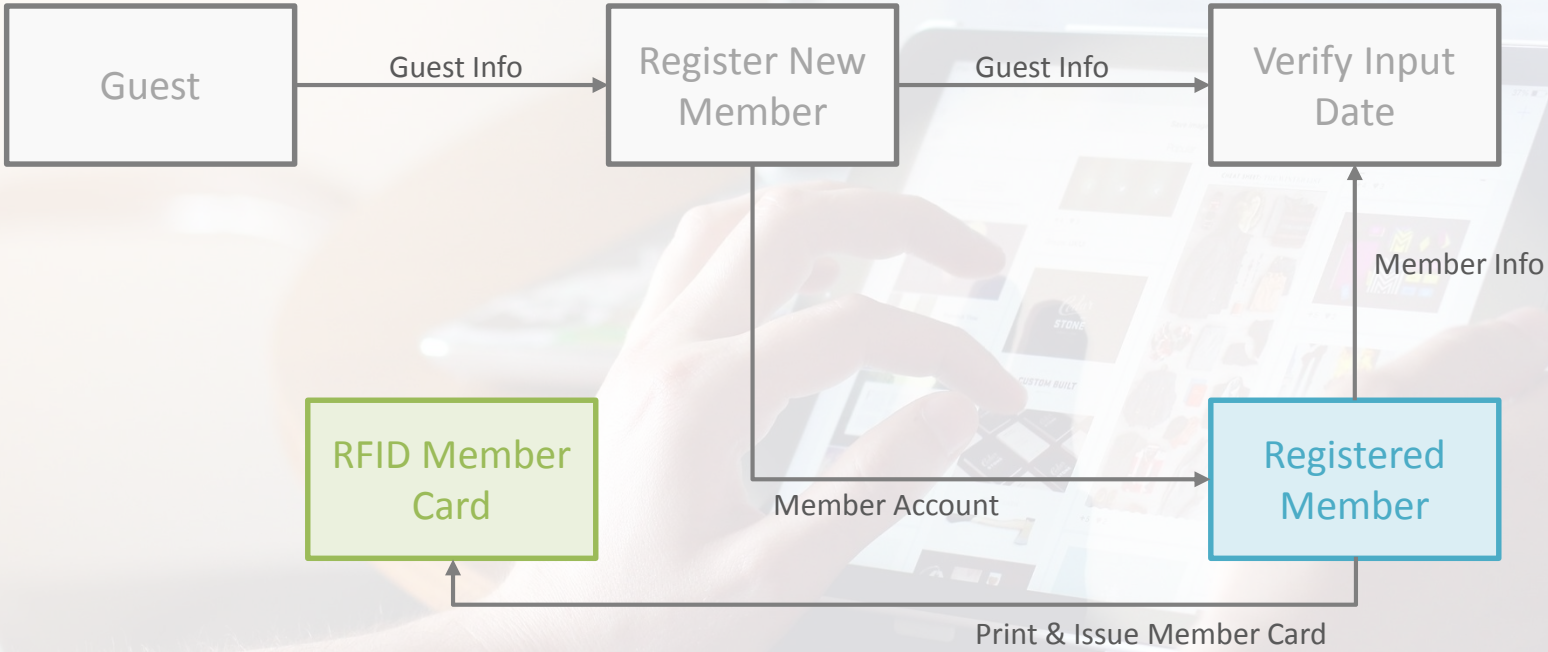
- Create and manage library users
- Manage books inventory (Text, Audio, Physical)
- Manage rfid tags on physical stock
- Issue / return physical books
- Manage late fines / other fines

LIBRARY USER

The library user will have following roles and responsibilities:

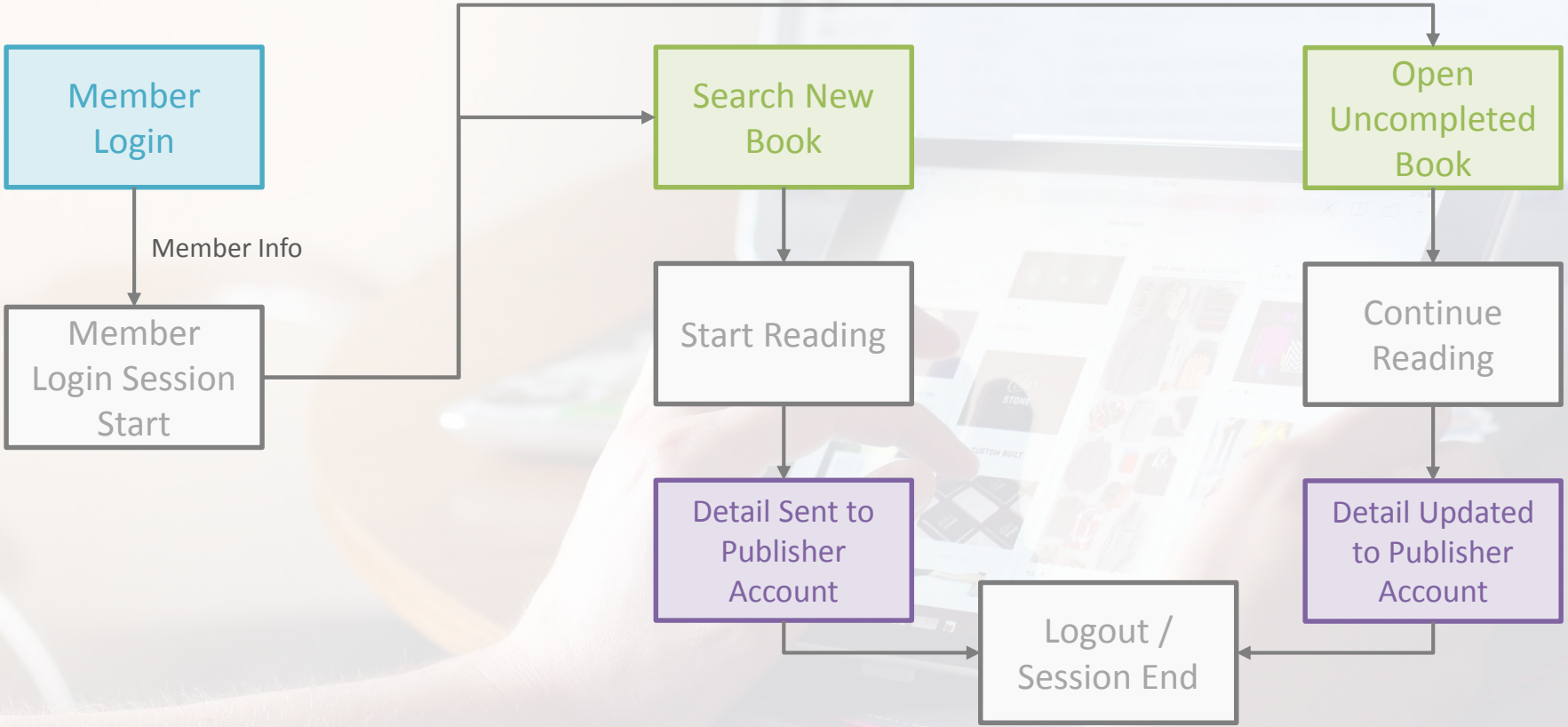
- Search for book, article, recipe, author, journal
- Read books and give chapter wise tests using Learning Management System
- Search for books / articles on Google and Wikipedia
- Request for book on android mobile app
- Request for a new book

MEMBER REGISTRATION

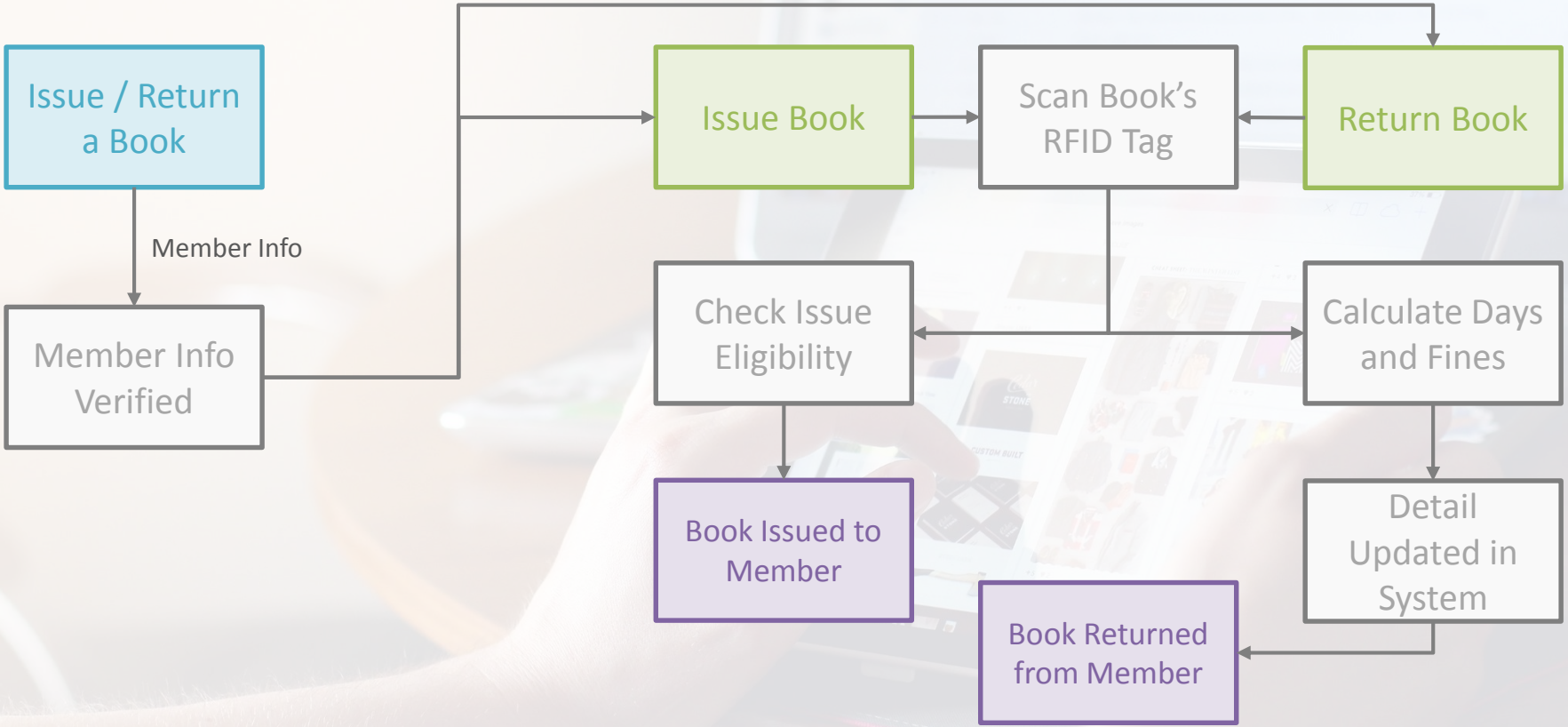


MEMBER VISIT & READING METHODS

BOOK READING – E-Pub / LMS



BOOK READING – RENT A BOOK



LAB AND HARDWARE SETUP

REQUIRED HARDWARE

The following hardware setup is requirement to establish an e-library with 45 systems.

- Server (HPE ProLiant ML 30 Gen 9 – 1 Nos.)
- Thin Client (n-Computing Quantum - 45 Nos.)
- 18.5” / 19” TFT (HP – 45 Nos.)
- Multimedia K/M Combo (HP – 45 Nos.)
- Switches (32 Ports – 2 Nos.)
- Firewall (1 Nos.)
- CAT6 Lan Cable (D-Link – As per requirement)
- Printer (HP LaserJet Pro MFP M126nw (CZ175A) – 1 Nos.)
- RFID Smart Proximity Cards (1000 Nos.)
- RFID Readers (Secureye or equivalent)
- RFID Tag Stickers (1000 Nos.)
- RFID Smart Card Printer (Datacard)

Server Configuration

- Intel® Xeon® E3-1200 v5 product family
- 8GB DDR4 UDIMM
- Unbuffered ECC
- Dual Power Supply
- HPE Smart Array
- 1 Gb 332i Ethernet Adapter
- 1TB HDD
- External DVD Writer (HP)

ADOPTED TECHNOLOGIES

Website Designing

A static website is a basic need of any organization to showcase its product/services with other detail over Internet. A static website is a combination of **7-8 static pages** (ie: pages that don't change often) including the home page, about us, our services, our team, and contact us in each website. We design home page design for websites and once approved the other pages of websites will be designed. We'll populate all static content on pages. The content will be provided by client.

Testing

We'll test the website in a variety of browsers, including Safari, Chrome, Firefox and Internet Explorer 9. We'll also test the responsive design on iPhone and Android devices. We'll test the functionality of the site to ensure there are no errors or broken links and then hand it over to you for review on a test server.

Launch

Once you've tested the website and are happy with its functionality, we'll publish your website and point your domain over to the new site. Launch time!

{our design} PROCESS

research.
Determine your needs.

propose.
What can we do to help you succeed?

design.
Designing a site that stands out & makes a meaningful connection.

build.
Putting the pieces into action to create the final working product.

write.
People come to your site looking for solutions. The words on the page should empathize and provide answers.

revise.
Your input is critical. We want to make certain that your website speaks to your audience and represents your company well.

approve.
Give us your thumbs up. Once you review the final product, we prepare to present your site to your customers, Google, and the world.

launch.
Congratulations! You have a new website!

maintain.
It's not over when we launch. Keeping it up-to-date with relevant content is critical to the success of your website.

Overview and Goals

We, at Almighty Creation don't need to tell you how important your website is to your brand, your visitor experience, and your ability to interact with your target audience. You're running a successful organization but let's be honest - your website is in dire need of an update.

It's not about your website looking cool - it needs to look on-brand, work smoothly, allow users to easily find what they're looking for and do what you want them to do. It needs to load quickly, be search-engine friendly, simple for your team to update, and responsive to whatever kind of device users are viewing from. You need a blog that gives you a voice to position yourselves as leaders in your industry and engage with your target audience.

At Almighty Creation, we can make this all happen with more gain than pain. We'll transform your site from being a cumbersome. We believe in rapid results, technical strength, diverse skill sets, an eye for design, a focus on usability, responsible use of the trust placed in our hands, and expertise in SEO, social media and mobile accessibility.

Scope of Services

Research

The first step is we need to thoroughly understand your business, your business goals, your customers and their expectations and behavior, and how your website factors into all of it. We'll also look at the competitive landscape to establish context and benchmarks for how your site should function and then improve on that. This stage will give us the foundation for moving forward with just the right recommendations for the design and development of your new responsive website.

Design

Once we're armed with this information, we'll set to work sketching out interface layouts for 3-5 different views, including the home page, sub page, the blog template, and any additional templates needed. Wireframes look like simple skeletons of your website without the visual polish of the finished design, allowing us to experiment and iterate on solutions quickly so that we have a good sense of how content should be laid out across different screen sizes.

Scope of Services

We recommend having all of your content ready by this stage which will inform the design and make it faster to load the initial content on the development server so content doesn't hold back the launch. If you won't be able to provide professionally written content by this stage we recommend having our in-house copywriter create the content for you.

Next we'll design high-fidelity comps that show what the final designs will look like on desktop, tablet, and smart-phone screen sizes, providing up to two rounds of revisions on the design.

Development

Next we'll set to work making your design a reality by building the site using standards-based technology. We'll build the front-end templates in HTML5, CSS, and use JQuery for simple behavior and effects like animations and form validation.

Browser Compatibility

Device Compatibility

almightycreation

THANK YOU

THANK YOU

Please feel free to contact us for further discussion, so that we can better understand your requirements and provide the best quotes to automate your business process.

Contact: +91 8586926843 (Sankalp)
+91 9956368332 (Vaibhav)

Email ID: almightygroup@hotmail.com