RARS Software Application

Team Koala

Presentation Objective

After reading through project background and conducted some research study, we established requirements elicitations to better understand the project's motivation and its requirements. 11 user stories are found, and a final solution is conducted based on it and presented as a digital prototype

Team Member









Yi Gao

Presentation Structure

01 02

Background Introduction Projects and Requirements Solution

This section will brief present: our Client, background of the project, project motivation.

Background Introduction



Client: Brian Mcdermott



Radio Frequency Interference (RFI)



Project Motivation: RFI, Radio Communication

Requirements

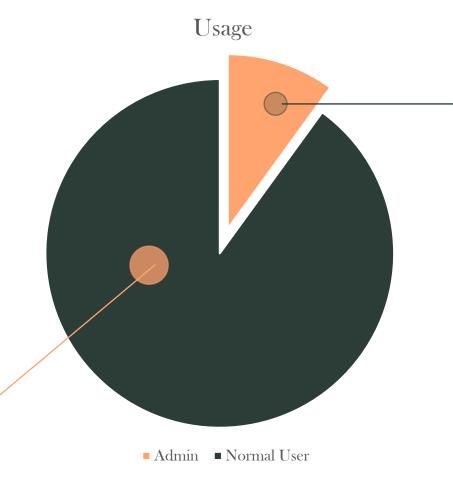
This section will brief present: our projects, requirements for our projects, as well as the requirement analysis processes.

Requirement Analysis Process

Inception	Elicitation	Elaboration	Negotiation	Specification	validation
• Initialised client meeting and had a basic understanding of the project	• Engaged stakeholders to understand their goals -> goal model	• Refined requirements, developed personas and paper prototypes	• Reconciled conflicts through negotiation	• Finished specifications: documents, goal models, user stories, paper prototypes and digital prototypes	• Validated the quality of all software requirements







Guardian Austin Wade 60 % I would like to listen to a radio even in areas with high RFI. Background As part of the modern world the level of radio frequency interference (RFI) generated in the urban areas has increased expediently over the past years. This has a dramatic effect on the ability to receive HF radio signals by amateur radio operators and other HF radio users particularly in dense urban areas. Demographic As a member of a radio club, Austin wounld like to · Get information about the radio · Able to receive radio signals Melbourne , Australia Frustrations Company Manager



Demographic

Australia Single electrical engineer self-employed

Nairb Ttomrecm, 46, AUS TRALIA

Rational

As part of the modern world the level of radio frequency interference (RFI) generated in the urban areas has increased expediently over the past years. This has a dramatic effect on the dense urban areas. Nairb, who has been keen in exploring electircal radio signal for decades, has decided to build a radio station to better monitor the transmission of radio signal. He also built a club for people like him to discuss and exchange their thoughts.

MARKET SIZE

Goals

As the admin of the radio software, Nairb would like to:

2. Control the radio station power.

User stories

Epic ID	Epic	User Story ID	As a <role></role>	I want to <do something=""></do>	So that <achieve goals="" some=""></achieve>	Priority	Size Estimation
	Login/register	1	Admin	Create an account for my club member	They can use the accounts to login	M	Small
1		2	Admin	Manage access of user account	I can detect/create the users accounts	M	Medium
		3	Admin/Club member	Login	I can start to use the system	M	Small
		4	Admin	Edit my profile	I can update my information	C	Small
9 1	Manage the radio station	5	Admin	Switch on/off radio station	I can close it at home	M	Small
	Manage Auto- alarm system	6	Admin	Be alarmed when power is lower than threshold	I can perform safety actions	S	Medium
		7	Admin	Set an alarm threshold	I can be alarmed when power is lower than threshold	S	Small
4 D	Display voltage	8	Admin	See the voltage of the system	I can monitor the power level	M	Small
5	Display radio interface	9	Admin/Club member	Switch between different channels	I can listen to the channel I like	S	Medium
	Push-to-Talk	10	Admin/Club member	Adjust the volume of the radio	I can listen to it at a suitable volume	S	Small
6		11	Admin/Club member	Push a button and start to talk to others	I can communicate with other club members on a certain channel	S	Large

Acceptance test

Acceptance Criteria ID 1.1	Acceptance Criteria Given I have logged in and on user page, When I find the user I want to delete and click the 'delete' button at the end of the user information, Then I can delete the user accounts to maintain security of the website.	Step 1 2 3 4	Acceptance Test Admin is at the home page. Admin clicks the "User profile" button on the top bar. The page is redirected to the user profile page. Admin clicks the "Delete user" button in the middle.	Crit Yes	ical No •	Tes Accept ✓	st Result Reject
		5	The page is redirected to the user control page. Click the delete icon to the right of the user you want	*		*	
			to delete, then the user will be deleted from the database.				
1.2	Given I have logged in and on user page, When I want to add an user, I click the add button and input that user id of the user I want to add, Then I can add the user accounts to maintain security of the website.	1	Admin is at the home page.		~		~
		2	Admin clicks the "User profile" button on the top bar.	~		~	
		3	The page is redirected to the user profile page.	*		*	
		4	Admin clicks the "Add user" button in the middle.	~		~	
		5	A pop up window emerges with auto-generated id and password.	~		~	

This section will brief present: our solution as digital prototype.

Solution



Thank you!

Presented by Team Koala