Bob's Computer Repair Shop

BUSINESS REQUIREMENTS DOCUMENT

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Version History

Name	Date	Reason for Change	Version
Krasso, Richard	10/17/2019	New document format	3.0.0
Krasso, Richard	11/15/2019	Refined requirements	4.0.0
Krasso, Richard	8/02/2022	Refined requirements	5.0.0
Krasso, Richard	12/06/2022	Refined requirements	6.0.0
Krasso, Richard	9/03/2023	Refined requirements	7.0.0

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SECTION 1: OBJECTIVE / SCOPE

PROBLEM

You work for a local web contracting company that specializes is helping start-ups with application development projects. Your company has been contacted by Bob's Computer Repair Shop, a local computer repair shot, to automate/modernize their manual service repair system. As of now, all service repair invoices are manually recorded using a pen and piece of paper. Invoices are provided through a printed excel worksheet. Bob would like to an automated approach to capturing service repair requests and providing customers with printable invoices. Bob has requested the following features:

- Account registration
- Forgot password
- Service repair requests
- Invoice summary
- User configurations
- Employee directory
- FAQ
- Profile editing

Security

Employees must be signed in to access the website. This is an internal application hosted on Bob's local intranet network.

Requested Completion Date

Four weeks.

Additional Resources:

Name	Comments
Courses GitHub repository	https://github.com/buwebdev/web-450
Git training	https://www.atlassian.com/git/tutorials/comparing-workflows/gitflow-workflow

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Regular	http://web.mit.edu/hackl/www/lab/turkshop/slides/regex-cheatsheet.pdf
expression	
cheat sheet	
Regular	https://regexr.com/
express training	

SECTION 2: BUSINESS REQUIREMENTS

This section is required and contains a listing of the business requirements for the project. Requirements start with the letter R followed by the number. For requirements with several features, dot notation is used. When you create the Technical Design Document (TDD) use the numbering system here to correlate the implementation details with the requirement. This is done for two reasons:

- Ensures you do not miss anything.
- Creates a source of truth document for group members and managers.

Requirement	Requirement	Comments
#		
R – 1	The entire website is required to use one of the following color themes: House Gryffindor House Hufflepuff House Ravenclaw House Slytherin	You decide which theme to use, but the entire website must be styled to match the house you selected. You may use Angular Material, Bootstrap, or Vanilla CSS. The website should be mobile accessible/ready.
R – 2	A Home/Landing	Design a home/landing page that is consistent with your selected house theme. For inspiration, use the following
	page for	article. For help with Bootstrap starter templates use the
	employees	following <u>article</u> .
	when they sign	

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	in to the website.		
R – 3	A Sign In page.	Design a sign in page that is consistent with your selected house's theme. Include input fields for email and password. Use appropriate data validation to cover all scenarios.	
R – 4	Admin: User Configurations	Build user configuration pages for viewing a list of users, adding a new user to the database, editing a selected user, and deleting a user from the database. Users must have a role of admin to access this section of the website.	
R – 5	A 404 page.	Design a 404 page that is consistent with your selected house theme.	
		The 404 page should be fully customized with image and textual content. Be creative, original, and showcase your styling skills	
R - 6	A Registration page.	Design a registration page for users. As part of the registration process, provide users with the ability to select security questions. Users should be able to select a total of three separate security questions and provide their answer.	
R – 7	Reset password.	Provide users with the ability to reset their password. Use the following process: • Verify username • Verify saved security questions • Reset password	
R – 8	Employee Directory page.	Design an employee directory page that is consistent with your selected house theme. Include images and a write-up for each employee. Minimum of six employees – including Bob.	
R-9	FAQ page:	Design an FAQ page that is consistent with your selected house theme. This page should include an explanation on how to use the website. Group information by topic. For example:	

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R – 10	Service Repair	 User configuration. Include images and instructions. Account registration. Include images and instructions. Reset password. Include images and instructions. Service repair request. Include images and instructions. Invoice summary. Include images and instructions. Purchases by service. Include images and instructions. Design a service repair page that is consistent with your selected house theme. The page must include:
		 Minimum of seven fixed rated services: Password Reset (\$39.99) Spyware Removal (\$99.99) RAM Upgrade (\$129.99) Software Installation (\$49.99) PC Tune-up (\$89.99) Keyboard Cleaning (\$45.00) Disk Clean-up (\$129.99) Input field for parts (numbers only) Input field for labor (number of hours * \$50.00) Special note. The input fields for parts and labor are optional and are there incase customers want custom work done that is outside the scope of Bob's fixed rated services. For example, hard drive replacement. For use cases outside of fixed services, Bob charges a flat fee for parts and labor.
R – 11	An Invoice Summary page.	Design an invoice summary page that is consistent with your selected house theme. Once a service repair form has been submitted, an invoice summary page should appear with the items they ordered. This page should be printable and include the following fields: • Date of order • Customers first and last name • Detail listing of the items purchased • Invoice total
R – 12	Purchase by Service Graph.	Design a purchase by service graph page that is consistent with your selected house theme. Users must have the role admin to access this page. Use the following aggregate query to populate the graph:

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```
$unwind: '$lineItems'
                                    $group:
                                          id':
                                              'title': '$lineItems.title',
                                              'price': '$lineItems.price'
                                            },
                                          'count':
                                              $sum: 1
                                    $sort:
                                           id.title': 1
                               Design a my profile page that is consistent with your
R - 13
              My Profile
                               selected house theme. Display the following items:
              page.
                                   Basic Info:
                                      o Full name
                                      o Email address

    Address

                                      o Phone number
                                      o Last signed in
                               • System Settings:
                                      o Language: English
                                      o Privacy settings: Role
                               Special note. Under the privacy settings, display the users
                               role. Additionally, provide users with the ability to edit
                               their address and phone number.
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SECTION 3: APPROVAL

Approvers	Approved (Y/N)	Date
Approved By (Client Acceptors, can be more than one)	Y	9/3/2023
Approved By (Solution Architect)	Y	9/3/2023
Approved By (Development Team)	Y	9/3/2023

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