Bob's Computer Repair Shop

SPRINT SCHEDULE

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Overview:	

BCRS: SPRINT 1

Gradable Requirements:

Requirement	Requirement
#	
1	MongoDB database design Business rules: a USER can have one ROLE. a USER can have many SECURITY_QUESTION. a SECURITY_QUESTION has an ANSWER. a USER generates many INVOICE an INVOICE has many LINEITEM Create an ORD based on the above business rules. Convert the ORD into a NoSQL data structure. Create a new database named bcrsDB with the appropriate collections. Use CamelCase for the database collection names.
2	User: • email • password • firstName • lastName • phoneNumber • address • isDisabled • role • selectedSecurityQuestions Role: • name Selected Security Questions: • questionText • answerText

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Invoice:

- email
- fullName
- lineItems
- partsAmount
- laborAmount
- lineItemTotal
- invoiceTotal
- orderDate

Line Items:

- name
- price

Special note. The design of the database is a team decision, but at minimum, the above fields must be included in the collections. By default, all users are assigned the role: standard.

3 Node.js API:

- Users:
 - o findAll:
 - Verb: GET
 - Route: localhost:3000/api/users
 - Status: 200 OK
 - Error Handling:
 - 400 Bad Request
 - 404 Not Found
 - 500 Internal Server Error
 - o findById:
 - Verb: GET
 - Route: localhost:3000/api/users/:userId
 - Status: 200 OK
 - Error Handling:
 - 400 Bad Request
 - 404 Not Found
 - 500 Internal Server Error
 - o createUser:
 - Verb: POST
 - Route: localhost:3000/api/users

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	- G. (201 G (1
	• Status: 201 – Created
	■ Error Handling:
	• 400 – Bad Request
	• 404 – Not Found
	o updateUser
	• Verb: PUT
	Route: localhost:3000/api/users/:userId
	■ Status: 204 – No Content
	■ Error Handling:
	• 400 – Bad Request
	• 404 – Not Found
	• 500 – Internal Server Error
	o deleteUser:
	 Verb: DELETE
	 Route: localhost:3000/api/users/:userId
	■ Status: 204 – No Content
	Error Handling:
	• 400 – Bad Request
	• 404 – Not Found
	• 500 – Internal Server Error
	Security:
	o signin
	Verb: POST
	 Route: localhot:3000/api/security/signin
	■ Status: 200 – OK
	■ Error Handling:
	• 400 – Bad Request
	• 404 – Not Found
	• 500 – Internal Server Error
	Special note : The deleteUser API does not actually remove a document from the collection. Instead, you are setting a property named "isDisabled" to true. For the signin API use the npm package bcryptjs to compare the hashed password against the passed-in plain text password. Refer back to the solution you built in WEB 420 for assistance on how to verify passwords. Swagger is required for all APIs in this project.
4	SoapUI Unit Tests:
	• Users:
	o findAll
	o findById
	o createUser
	o updateUser
	- F

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	o deleteUser
	• Security
	o signin
5	Angular:
	Home/landing page
	o Build a landing page for the BCRS project. This is the main page a
	user will see when they visit your website.
	Sign in page
	o Build a sign in page for the BCRS project. This page should have
	input fields for email and password and a submit button. Email and password are required fields. Add data validation for all use cases.
	 Use the npm package ngx-cookie-service for authentication (just like
	we did in the Nodebucket project). Save the employees full name,
	email address, and role to the browser.
	Admin:
	User configuration page (CRUD) operations:
	View a list of users.
	Create a new user.
	Edit a user record.
	Delete a user record.
	• 404:
	 Design a 404 page that is consistent with your selected house theme.
	The 404 page should be fully customized with images and textual
	content. Be creative, original, and showcase your teams styling skills.
	AuthGuard
	 Users must be signed in to access the website. Use the cookie from
	the signin process to validate their role.
	RoleGuard
	 Users must have an admin role to view the User Configuration Pages.
	Use the cookie from the signin process to validate their role.
6	3 functional test cases per team member (use the test case template document).
	For example, if there are three team members there should be a total of nine
	functional test cases.

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Gradable Requirements:

Requirement	Requirement
#	
1	Node.js API:
1	Nouc.js Al I.
	Security:
	o register
	• Verb: POST
	 Route: localhost:3000/api/security/register
	■ Status: 200 – OK
	■ Error Handling:
	• 400 – Bad Request
	• 404 – Not Found
	• 500 – Internal Server Error
	o verifyUser:
	• Verb: POST
	Route: localhost:3000/api/security/verify/users/:username
	Status: 200 - OK
	■ Error Handling:
	• 400 – Bad Request
	• 404 – Not Found
	• 500 – Internal Server Error
	verifySecurityQuestions:Verb: POST
	Route:
	localhost:3000/api/security/verify/users/:username/security-
	questions
	Status: 200 – OK
	■ Error Handling:
	• 400 – Bad Request
	• 404 – Not Found
	• 500 – Internal Server Error
	o resetPassword:
	Verb: POST
	 Route: localhost:3000/api/security/users/:username/reset-
	password
	■ Status: 200 – OK
	■ Error Handling:
	• 400 – Bad Request
	• 404 – Not Found
	• 500 – Internal Server Error
	• Users:

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	 findSelectedSecurityQuestions: Verb: POST Route: localhost:3000/api/users/:username/security-questions Status: 200 – OK Error Handling: 400 – Bad Request 404 – Not Found 500 – Internal Server Error Special note. Swagger is required for all APIs in this project.
2	SoapUI Unit Tests: • Security: • register • verifyUser • verifySecurityQuestions • resetPassword • Users: • findSelectedSecurityQuestions
3	 Register: Build the account registration page. Forgot Password: Build the forgot password process. Employee Directory: Design an employee directory page with a list of employees who work for BCRS (minimum of six employees – including Bob). Include images for each employee. Display 3 images per row for large and extra-large view ports. Display 2 images per row for medium and small view ports and display 1 image per row for mobile devices. FAQ: Design an FAQ page for BCRS. This page should include an explanation on how to use the website. Group information by topic. For example:

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4	3 functional test cases per team member (use the test case template document).
	For example, if there are three team members there should be a total of nine
	functional test cases.

BCRS: SPRINT 3

Gradable Requirements:

Requirement	Requirement
#	
1	Node.js API:
	• Invoices:
	o createInvoice:
	■ Verb: POST
	 Route: localhost:3000/api/invoices/:username
	■ Status: 200 – OK
	Error Handling:
	• 400 – Bad Request
	• 404 – Not Found
	• 500 – Internal Server Error
	o findPurchasesByService:
	■ Verb: GET
	 Route: localhost:3000/api/invoices/purchases-graph
	■ Status: 200 – OK
	Error Handling:
	• 400 – Bad Request
	• 500 – Internal Server Error
	Special note . Swagger is required and must be used to document the API(s).
2	SoapUI Unit Tests:
	Employees
	o createInvoice
	o findPurchasesByService
3	Angular:
	Service Repair page:
	Design the service repair page.
	Invoice Summary page:
	 Design the invoice summary page. Provide users with an option to
	print the invoice.

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	 Purchases by Service Graph: Design the purchases by service graph page. My Profile page: Design my profile page. Provide users with the ability to update their address and phone number.
4	3 functional test cases per team member (use the test case template document). For example, if there are three team members there should be a total of nine functional test cases.

BCRS: Group Presentation

Overview:

Requirement #	Requirement
N/A	Group presentations are held on days 44 and 45 (Thursday and Friday) of the last week of class. Presentations should last between 30-45 minutes and cover the following topics:
	A live end-to-end demo
	Individual roadblocks
	Lessons learned
	What you liked the most about the project
	What you liked the least about the project
	If you could do it all over again, what would you do differently and why
N/A	Grading criteria:
	All or nothing
	If you participate in the presentation, you will receive full credit
	If you cannot attend class or participate in the presentation you will not receive credit
	I do not need an explanation of why you cannot make class/participate

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