DIETICIAN API - HACKATHON

TEAM 5 - POSTMASTERS

SESHA SRAVANI - TEAM LEAD

GUNA THANGAVEL

LAVANYA SAIREDDY

NIDHI SHARMA

SUBASINI CLATTUS

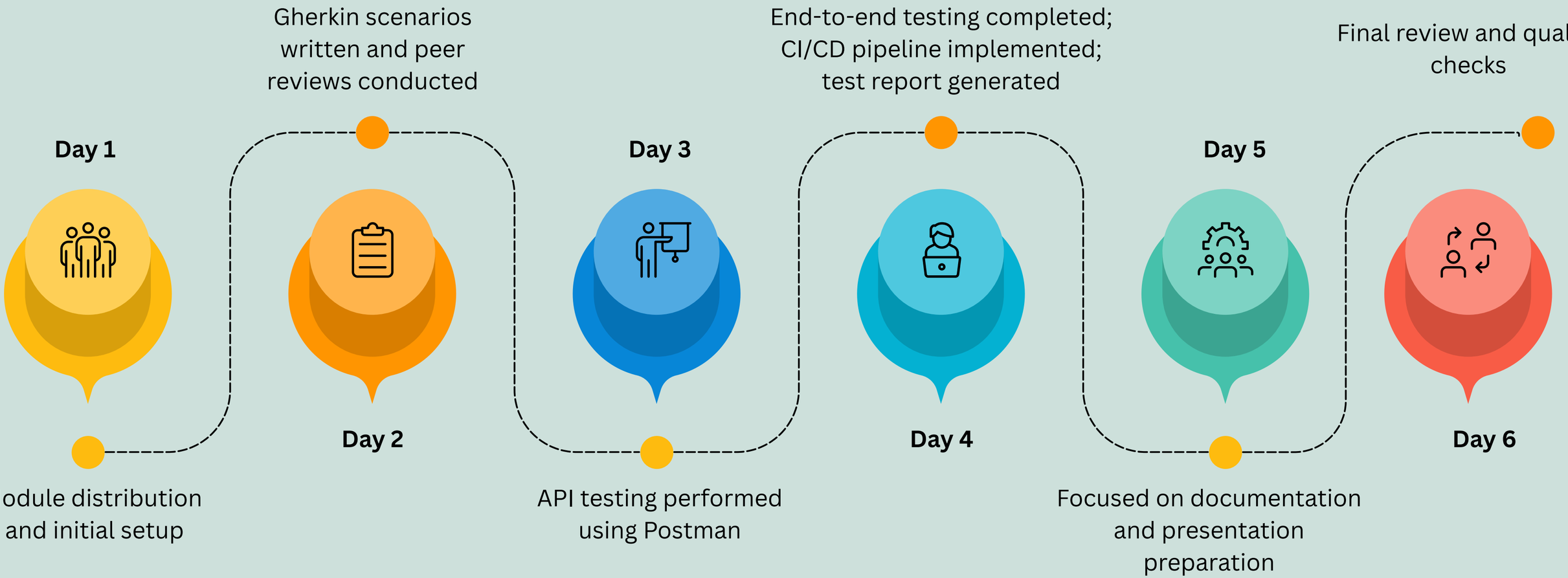
SUBHADRA SAHU

Duration : 1 Week

Objective

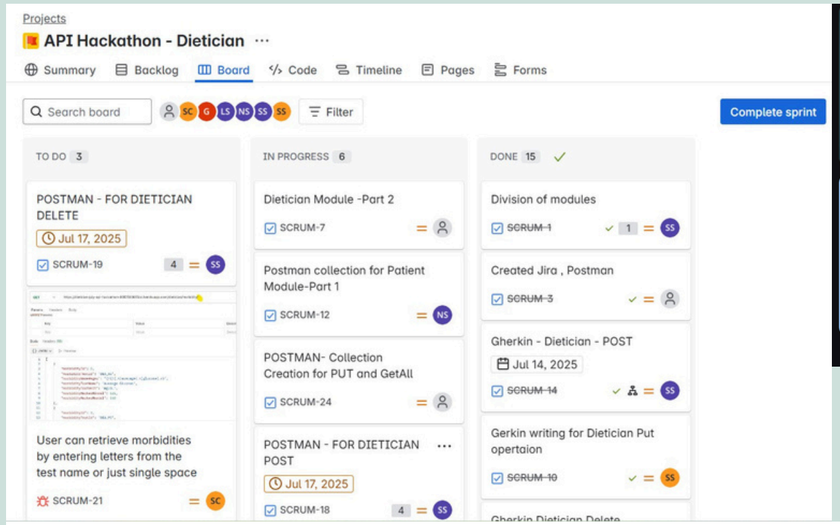
Build a robust API testing framework using Postman, integrating with CI/CD pipelines, Newman, and driven by Agile principles.

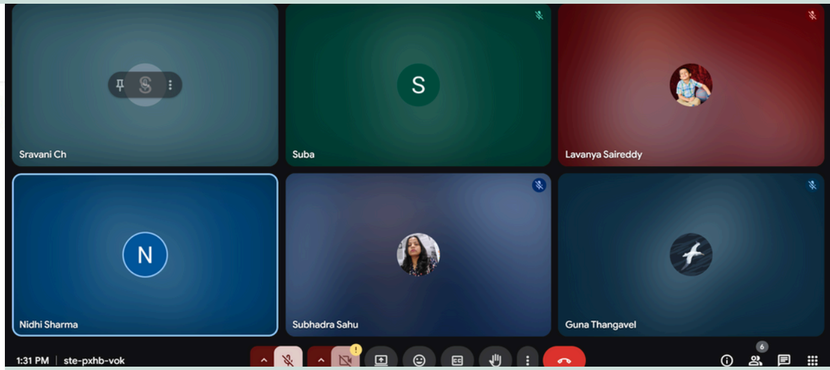
Team Workflow

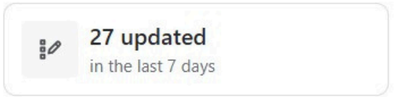


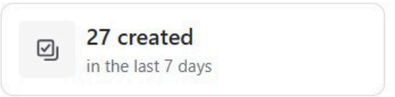
Sprint Execution & Management

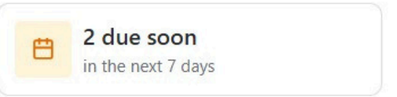
- **Daily Scrum Calls**
- **Sprint Planning**
- **Work Distribution**
- **JIRA Stories & Tasks**

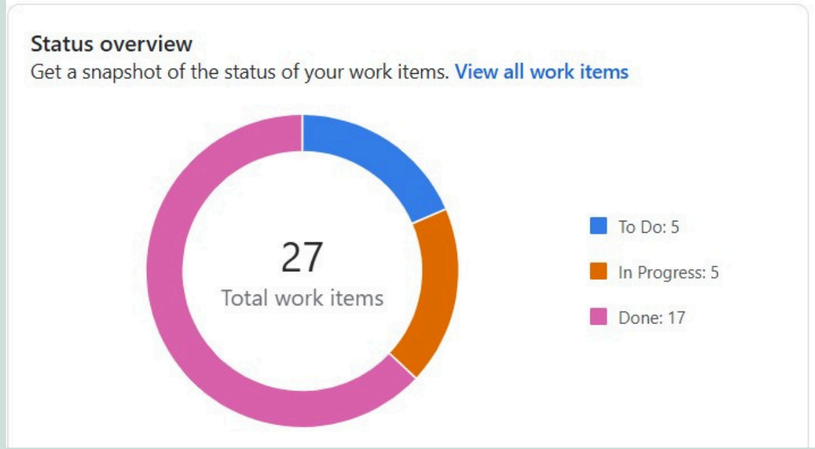


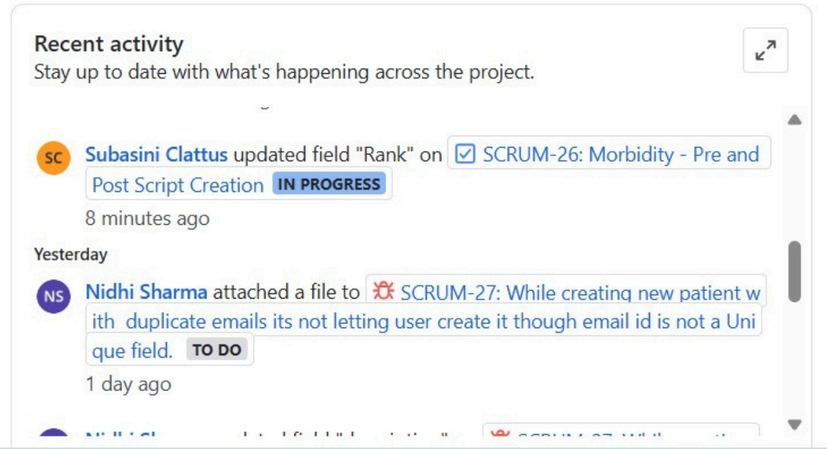




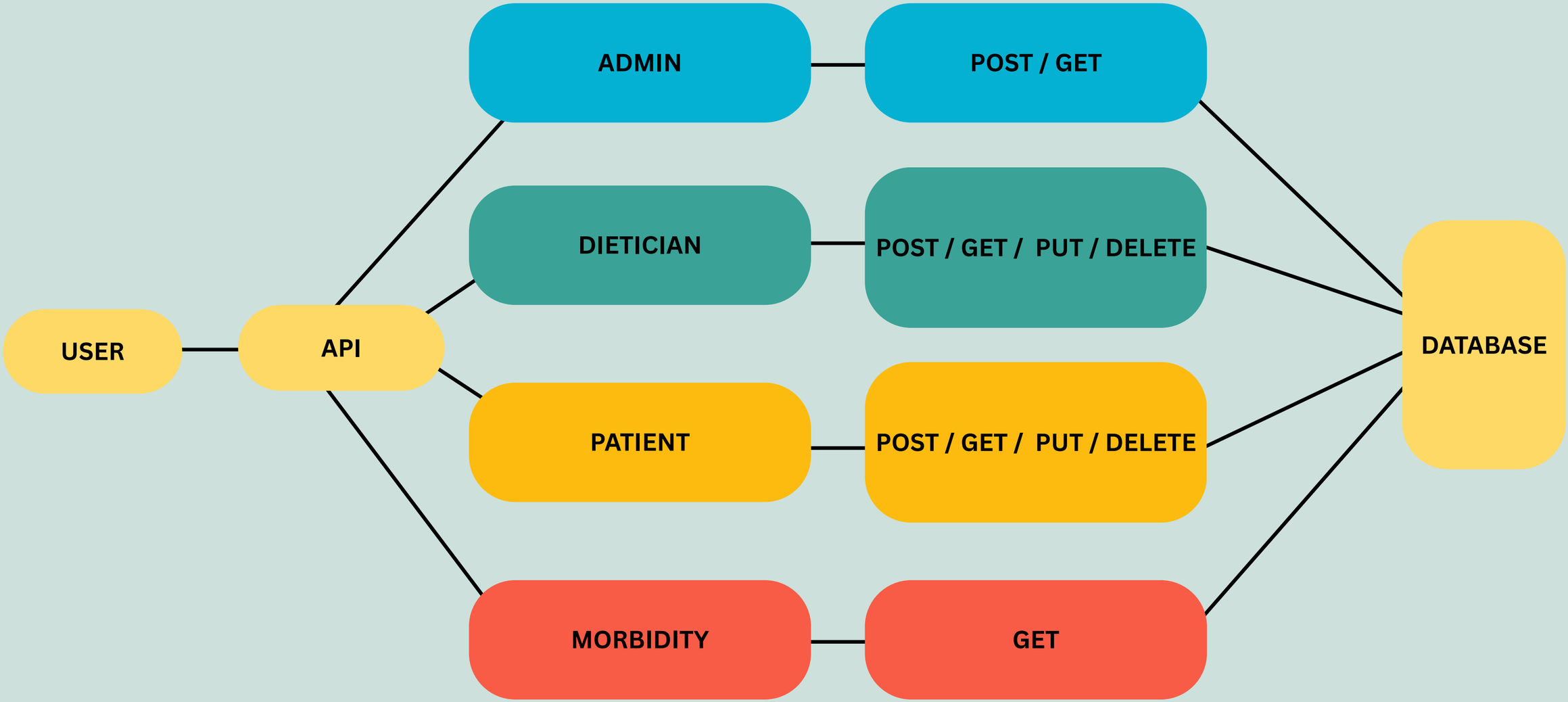








DIETICIAN API ARCHITECTURE OVERVIEW



Project Implementation

01 **Gherkin**

02 **Postman Testing**

03 **Data Driven Testing**

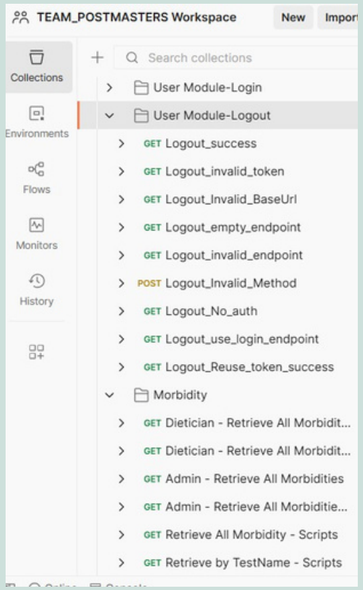
04 **End to End API Testing**

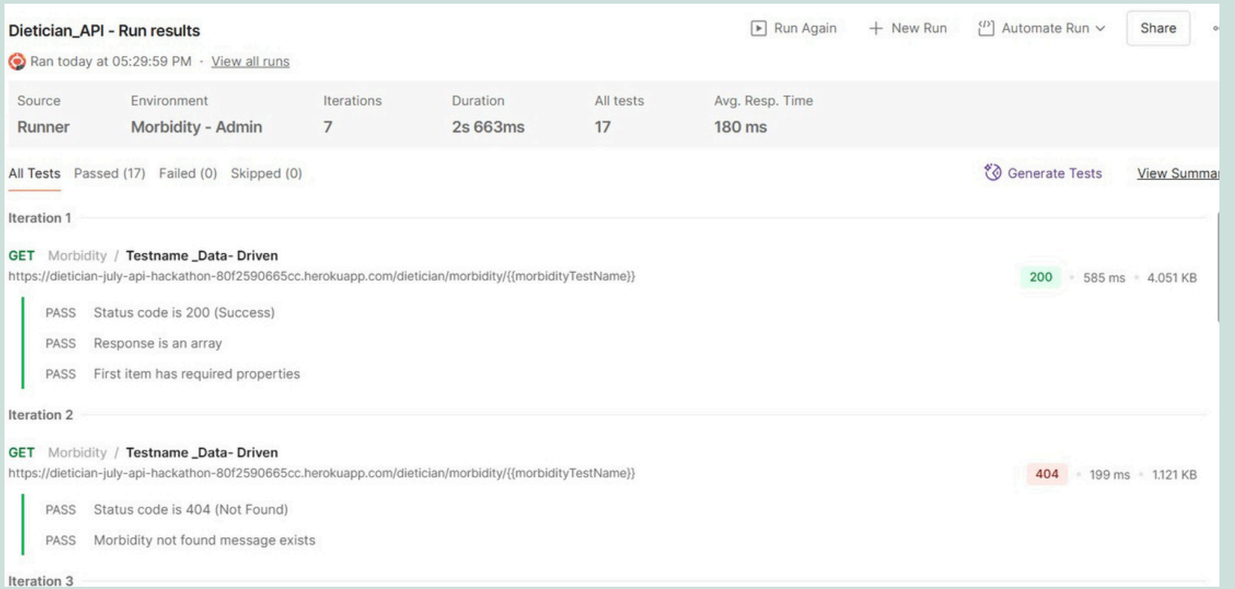
05 **Report Generation**

06 **CI/CD Integration**

Overview of No. of Scenarios Covered

Modules	Scenario Type	No. of Scenarios	Total Scenarios
Dietician [PUT,GETALL/GETBYID]	Positive	4	51
	Negative	47	
Dietician [POST, DEL]	Positive	8	33
	Negative	25	
User Module	Positive	3	24
	Negative	21	
Patient[POST,GET]	Positive	9	38
	Negative	29	
Patient[PUT,DELETE]	Positive	4	44
	Negative	40	
Morbidity	Positive	8	30
	Negative	22	
	Total		220





Challenges & Learnings

01
Postman Workspace Limitation
Limited collaboration due to a 3-member cap on free workspaces

02
Authentication Issues
Difficulty retrieving tokens in Swagger and Postman, delaying tests.

03
Role-Based Validation
Testing varied user roles (Admin, Dietician, Patient) with different access levels and responses.

04
Data-Driven Testing Errors
CSV/JSON formatting issues caused test failures; resolved by correcting data structure.

05
Environment & Variable Management
Needed improved handling of global variables and base URLs.

06
Bug Identification
Challenges differentiating between real errors and valid responses.

07
Report Integration
Integrating test results with other tools to generate accessible, visual test reports.

08
Team Collaboration
Coordinating across team roles to successfully chain and test complete workflows

THANK YOU