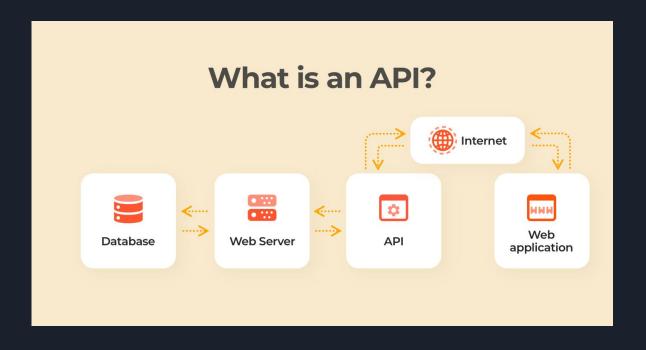
Student Management API

Matthew Adejumo

What is an API

- Application Programming Interface
- An intermediary between software that allows for communication between them

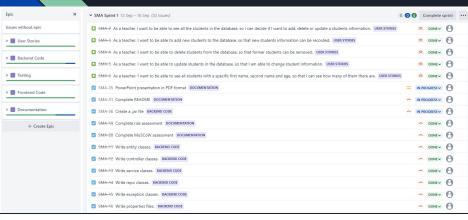


Consultant Journey

Technologies learned:

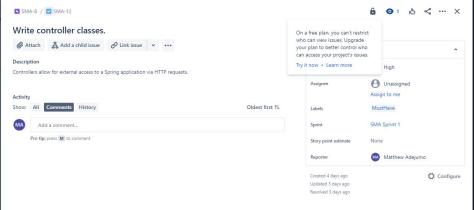
- Spring boot API development framework used to create stand-alone production grade applications
- Jira Agile project management which is an iterative approach to delivering a project through its life cycle
- Git/Github Version control/Cloud based hosting platform
- MySQL Server Database management system
- HTML/CSS/JavaScript Structure/Design/Interaction
- JUnit/Mockito Integration and unit testing

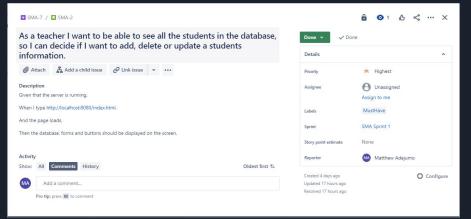
Sprint Plan



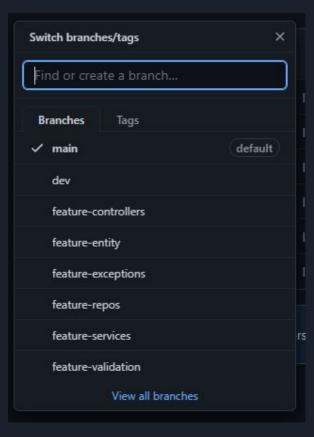
What needed to be included?

User stories with acceptance criteria and tasks with clear descriptions.





How I approached version control



Testing

-	student_management (com.bae)	1 sec 139 ms
	✓ StudentTest	
	✓ allArgsConstructor()	
	✓ noIDConstructor()	
	❤ getAndSetTest()	
	✓ StudentManagementApplicationTest	ts 7 ms
	✓ StudentControllerIntegrationTest	
	✓ getBySecondNameTest()	
	❤ getByIdTest()	
	❤ updateTest()	
	❤ getByAgeTest()	
	❤ getAllTest()	
	✓ getByFirstNameTest()	
	✓ createTest()	
	✓ deleteTest()	
	✓ StudentServiceUnitTest	76 ms
	❤ getByIdTest()	
	✓ deleteTrueTest()	
	❤ getAllTest()	
	✓ StudentControllerUnitTest	
	✓ getBySecondNameTest()	
	❤ getByIdTest()	
	❤ updateTest()	
	✓ getByAgeTest()	
	❤ getAllTest()	
	✓ getByFirstNameTest()	
	❤ createTest()	
	✓ deleteTest()	

Coverage:	All i	n student_management			\$ -
□ 〒	Ŧ	Ľ			
Element			Class, %	Method, %	Line, %
✓ □ com			80% (4/5)	94% (34/36)	95% (60/63)
v 🛅	bae		80% (4/5)	94% (34/36)	95% (60/63)
~	tu stu	dent_management	80% (4/5)	94% (34/36)	95% (60/63)
	v 🛅	controllers	100% (1/1)	100% (9/9)	90% (10/11)
		StudentController	100% (1/1)	100% (9/9)	90% (10/11)
	v 🖿	entities	100% (1/1)	94% (16/17)	96% (32/33)
		© Student	100% (1/1)	94% (16/17)	96% (32/33)
: 8	v 🛅	exceptions	0% (0/1)	100% (0/0)	100% (0/0)
		StudentNotFoundException	0% (0/1)	100% (0/0)	100% (0/0)
.	v 🖿	repos	100% (0/0)	100% (0/0)	100% (0/0)
		StudentRepo	100% (0/0)	100% (0/0)	100% (0/0)
	v 🛅	services	100% (1/1)	100% (9/9)	100% (17/17)
		StudentService	100% (1/1)	100% (9/9)	100% (17/17)
	G	StudentManagementApplicatio	100% (1/1)	0% (0/1)	50% (1/2)

Demonstration Time

What went well

- Managed to finish slightly ahead of time
- Managed to completely tick off the MVP checklist

What I would add if I had more time

- Adding a login page for teacher
- Created a different database that stored teacher login information
- Made the page look better that it currently does
- Pushed for even higher test coverage