



Animal Kingdom

HWA Project

By

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HWA Project- Risk Assessment

Potential Risks:

1. Dehydration due to extreme weather conditions
2. Forgetting to save files while working
3. Computer crashing due to overload
4. Procrastination
5. Illness risks caused by overworking and over exposure to screens & blue light
6. GitHub servers crashing
7. Laptop dying during work
8. Local files being deleted
9. Power cut

Risk Classification

Low	Medium	High	Major
-Acceptable -Suitable to proceed	-As low as relatively workable -Take precautionary measures	-Generally unacceptable -Seek assistance	-Completely intolerable -Put project progression on hold

LIKELIHOOD	SEVERITY			
	<u>Acceptable</u> -No impact on project	<u>Tolerable</u> -Effects noticeable but not detrimental to outcome	<u>Undesirable</u> -Opportunity for significant damage to occur	<u>Intolerable</u> -May lead to catastrophic outcome
Unlikely -Risk probably won't occur	9		2 3	6 7
Possible -Risk may occur		1	5	8
Anticipated -Risk will occur		4		

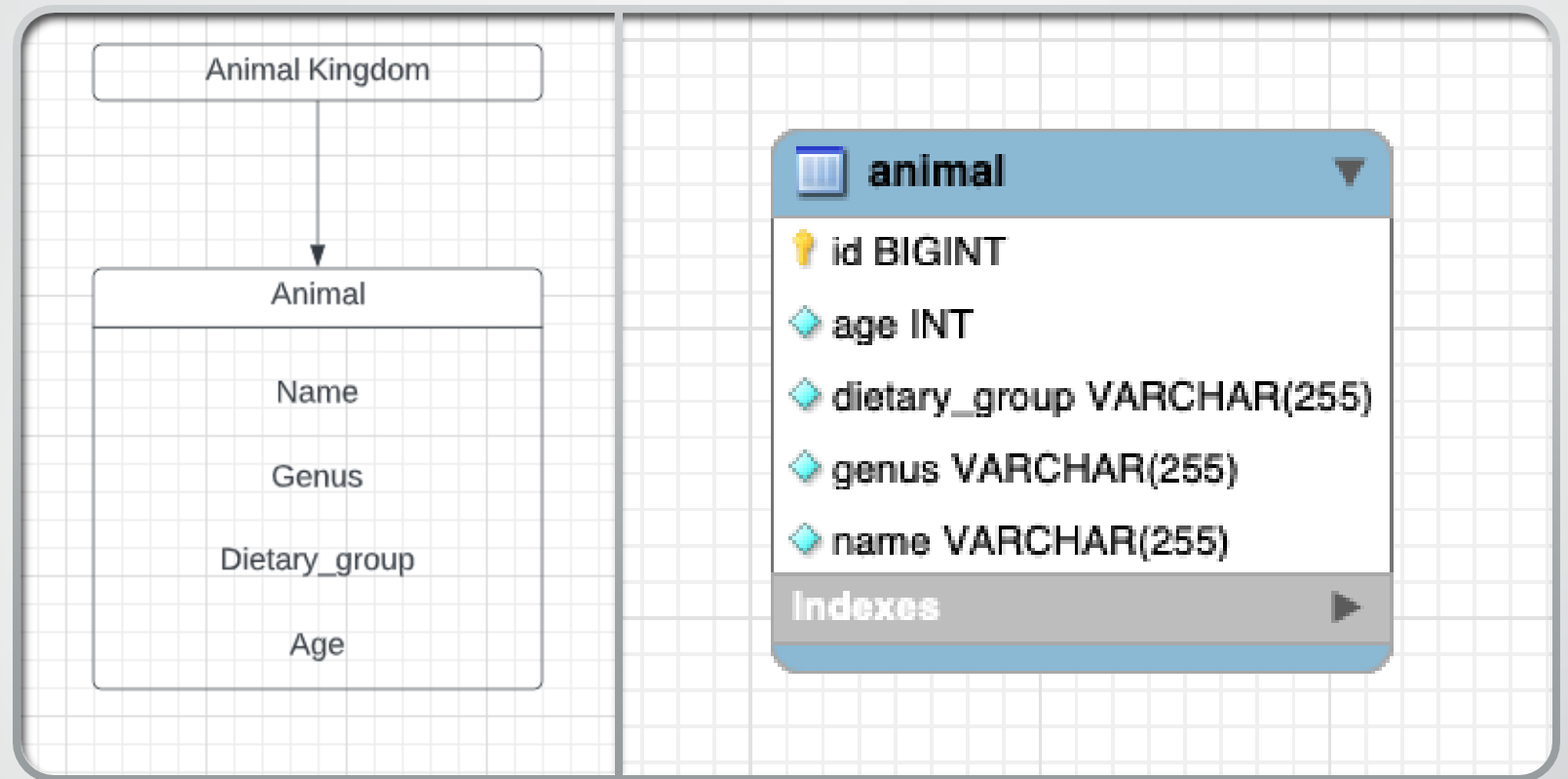
Response to each possible risk

1. Hydrate immediately, take break from work to replenish body.
2. Attempt to regain completed work through GitHub repository. Once file(s) has been attained, save work.
3. Step away from work space. Let computer rest. Turn on and attempt recovery of any missing work through GitHub.
4. Acknowledge the issue, see exactly what tasks need completing, make list and start on tasks within set timeframe to avoid further procrastination.
5. Take break from computer screen. Replenish body with food and drink. Minimise any screentime/exposure for at least half hour before continuing work.
6. Wait for issues to be rectified. Very likely that access will be reinstituted relatively fast.
7. Recover charger immediately and charge laptop, attempt to recover lost files from GitHub.
8. Attempt to recover lost files from GitHub.
9. Wait for power to return or, find another location for workspace.

Precautionary measures to avoid possible risks

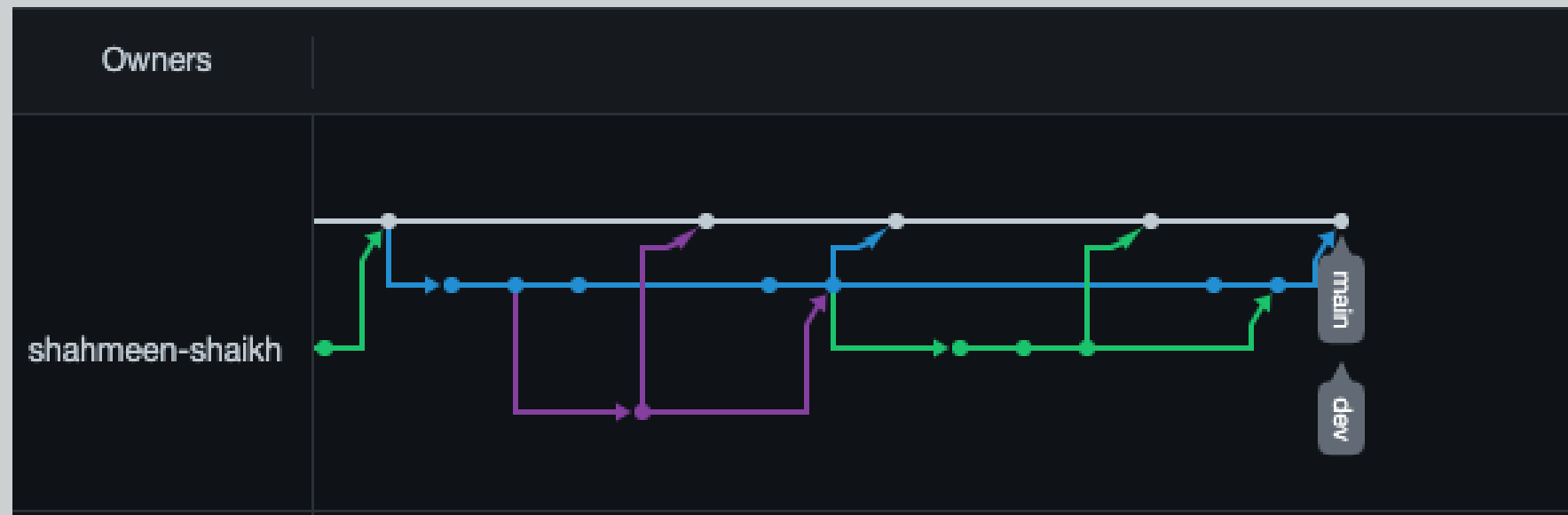
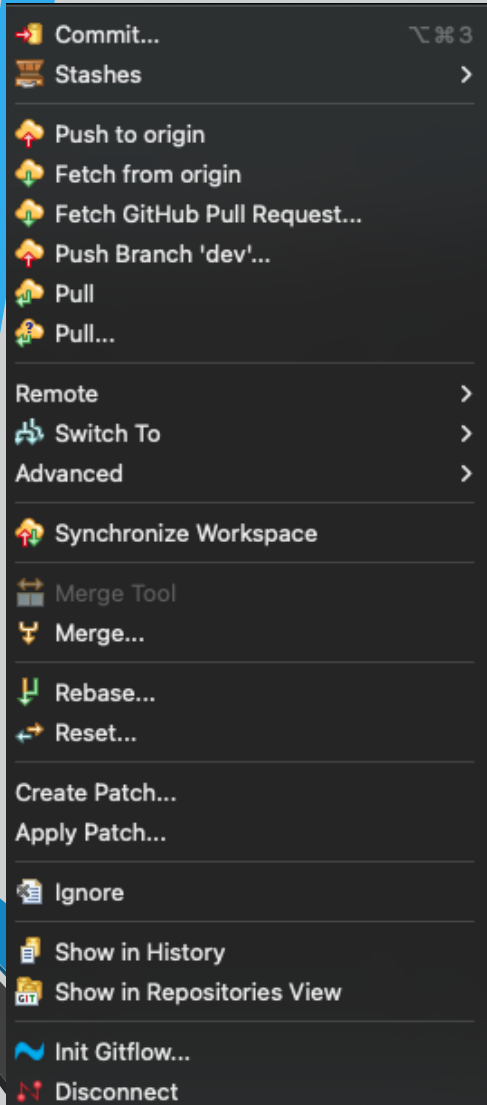
1. Regularly replenish fluids such as water to keep body hydrated. Also take breaks throughout to sustain body.
2. Make sure to save local file any time a change has been made.
3. Keep open tabs and running software's to a minimum when working to prevent overload on computer.
4. Establish specific worktimes to avoid burnout. Rid workspace of any potential distractions such as mobile phone.
5. Take consistent breaks through out to prevent eyestrain and headaches. Eat and hydrate throughout breaks.
6. Nothing can be done to prevent GitHub servers from crashing.
7. Ensure laptop is fully charged before starting work or, ensure laptop charger is nearby workspace at all times for quick, easy access.
8. Take caution while handling local files.
9. Nothing can be done to avoid power cut.

Planning Risk assessment



ERD/UML Diagram

Use of CLI/ Version control



Jira

Sprints

AN-1 API

- AN-20 As a user, I want to be able to update animals so i can change data if needed DONE
- AN-22 As a user, I want to be able to delete an animal so I can keep an updated record of my anim... DONE
- AN-2 As a user, I want to be able to add animals into the database so I can keep track of them DONE
- AN-19 As a user, I want to be able to add animals in the database so i can have all data in one place DONE
- AN-3 As a user, I want to be able to read all animals in the database so I can view them all DONE
- AN-21 As a user, I want to be able to read everything in the database to keep track DONE
- AN-4 As a user, i want to be able to update an animal in the database so I can change data if needed DONE
- AN-5 As a user, i want to be able to delete an animal from the database so I keep remove data if ne... DONE

AN-6 Backend-API

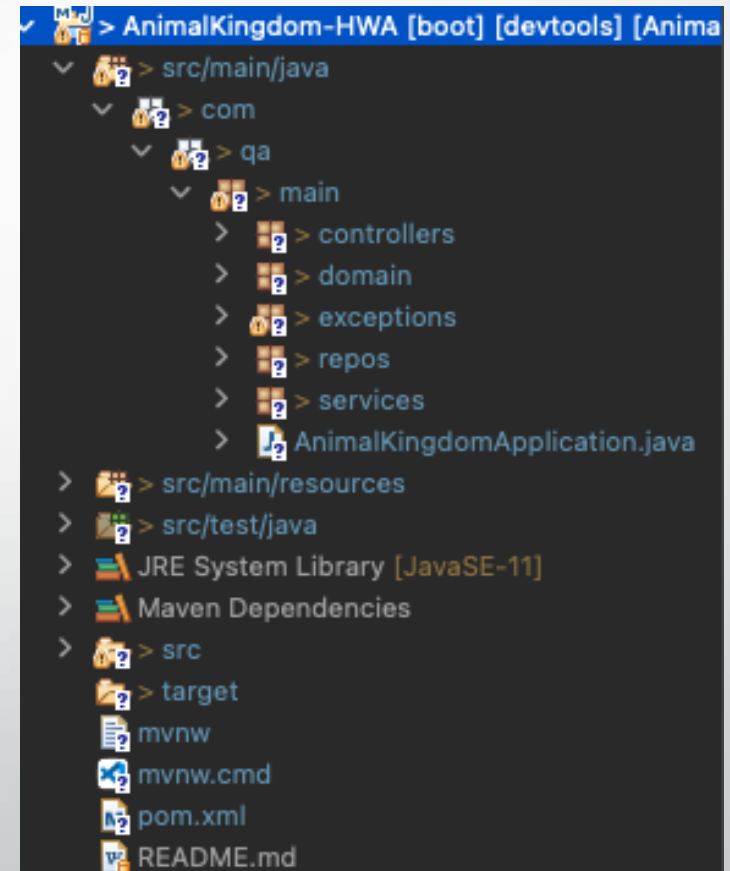
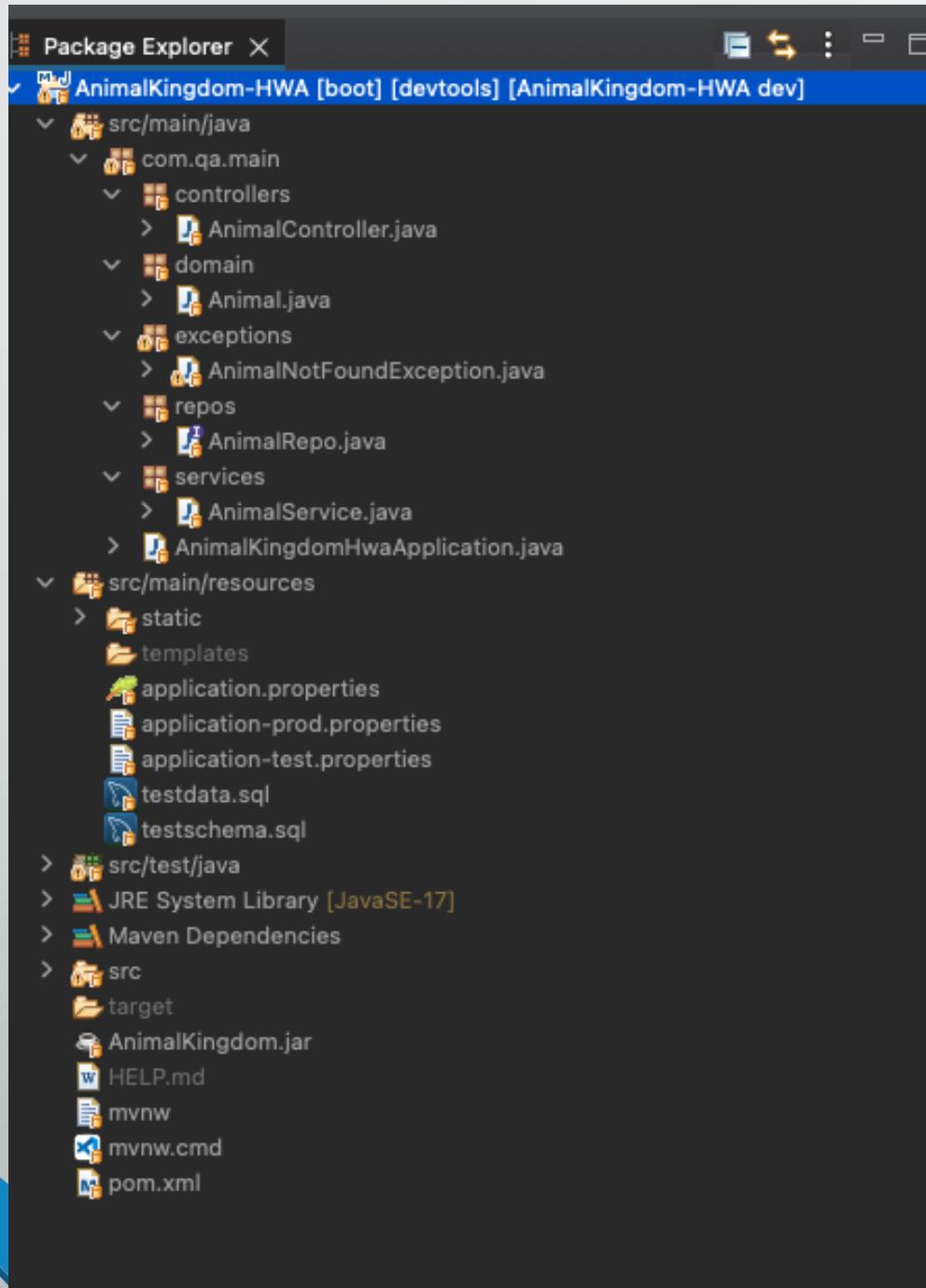
- AN-14 As a developer, I want to Test each function through integration and unit testing so I can to ... DONE
- AN-11 As a developer, I want to connect my API with a database in mysql so the data can be stored DONE
- AN-13 As a developer, I want to create the correct packages and classes so i can make methods to... DONE
- AN-7 As a developer, I want to add a create function so i can meet the MVP DONE
- AN-8 As a developer, I want to add a read function so I can meet the MVP DONE
- AN-9 As a developer I want to add an update function so i can meet the MVP DONE
- AN-10 As a developer I want to add a delete function so i can meet the MVP DONE

AN-12 Front-end

- AN-16 As a developer I want to add an easy way of using crud functionality on website so its easy t... DONE
- AN-18 As a developer I want to add pictures to my site so its more user friendly DONE
- AN-15 As a developer I want to build a fully functional front end website so user can communicate ... DONE
- AN-17 As a developer i want to style my site so its pleasing to the eye DONE

+ Create Epic

Development



Testing

finished after 5.989 seconds

Runs: 5/5

Errors: 5

Failures: 0

AnimalControllerIntegrationTest [Runner: JUnit 5] (0.334 s)

readAllTest() (0.296 s)

updateTest() (0.001 s)

readByIdTest() (0.005 s)

createTest() (0.011 s)

deleteTest() (0.018 s)

Problems @ Javadoc Declaration Console Coverage X

AnimalKingdom-HWA (17 Aug 2022 20:10:29)

Element	Coverage	Covered Instructions	Missed Instructions	Total Instructions
AnimalKingdom-HWA	89.0 %	608	75	683
src/main/java	75.2 %	228	75	303
src/test/java	100.0 %	380	0	380

JUnit

after 11.467 seconds

16/16 Errors: 0 Failures: 0

animalServiceUnitTest [Runner: JUnit 5] (0.003 s)

- getByIdTest() (0.003 s)
- updateTest() (0.000 s)
- testCreate() (0.000 s)
- testGetAll() (0.000 s)
- deleteTest() (0.000 s)

animalKingdomHwaApplicationTests [Runner: JUnit 5] (0.003 s)

- contextLoads() (0.003 s)

animalControllerUnitTest [Runner: JUnit 5] (0.242 s)

- readAllTest() (0.146 s)
- updateTest() (0.072 s)
- readByIdTest() (0.005 s)
- createTest() (0.005 s)
- deleteTest() (0.007 s)

animalControllerIntegrationTest [Runner: JUnit 5] (0.463 s)

- readAllTest() (0.301 s)
- updateTest() (0.052 s)
- readByIdTest() (0.017 s)
- createTest() (0.037 s)

Trace

```
AnimalControllerIntegrationTest.java
54 @Test
55 public void readAllTest() throws Exception {
56     // Create a list to check the output of readAll
57     List<Animal> result = new ArrayList<>();
58     // Add the single entry to the list
59     result.add(new Animal(1L, "Moon", "Brazilian Wandering Spider", "Carnivore", 2));
60     // Convert the list to JSON (The API responds in JSON)
61     String resultAsJSON = mapper.writeValueAsString(result);
62
63
64
65     mvc.perform(get("/animal/getAll")
66         .contentType(MediaType.APPLICATION_JSON))
67         .andExpect(content().json(resultAsJSON));
68 }
69
70 @Test
71 public void readByIdTest() throws Exception {
72     Animal F = new Animal(1L, "Moon", "Brazilian Wandering Spider", "Carnivore", 2);
73     String AnimalJSON = mapper.writeValueAsString(F);
74     mvc.perform(get("/animal/getByID/1").contentType(MediaType.APPLICATION_JSON))
75         .andExpect(content().json(AnimalJSON));
76
77 }
78
79 @Test
80 public void updateTest() throws Exception {
81     Animal update = new Animal(1L, "Moon", "Brazilian Wandering Spider", "Carnivore", 2);
82     String updateJSON = mapper.writeValueAsString(update);
83
84     Animal expected = new Animal(1L, "Moon", "Brazilian Wandering Spider", "Carnivore", 2);
85     String expectedJSON = mapper.writeValueAsString(expected);
86
87     mvc.perform(put("/animal/update/1").contentType(MediaType.APPLICATION_JSON).content(updateJSON))
88         .andExpect(content().json(expectedJSON));
89
90 }
91
92 @Test
93 public void deleteTest() throws Exception {
94     mvc.perform(delete("/animal/delete/1")
95         .contentType(MediaType.APPLICATION_JSON))
96         .andExpect(status().isNoContent());
97 }
98
99 }
100
```

Dashboard

Problems Javadoc Declaration Coverage

Element

> AnimalKingdom-HWA	AnimalKingdom-HWA	Coverage	95.1 %
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