

## Phase Four: Implementation and Testing

The Implementation section is similar to the Specification and Design section in that it describes the system, but it does so at a finer level of detail, down to the code level (Do *not* attempt to describe all the code in the system, and do *not* include large pieces of code in this section). It can also describe any problems that may have arisen during implementation. This section may include the following (if applicable to your project).

- a. Database Mapping (Schema Diagram)
- b. Tables Descriptions
- c. Architecture/technology Description.
- d. Algorithm for major functions.
- e. Sample code for main functions.
- f. Functional test Cases.

**Make sure you add text that explains each model.**

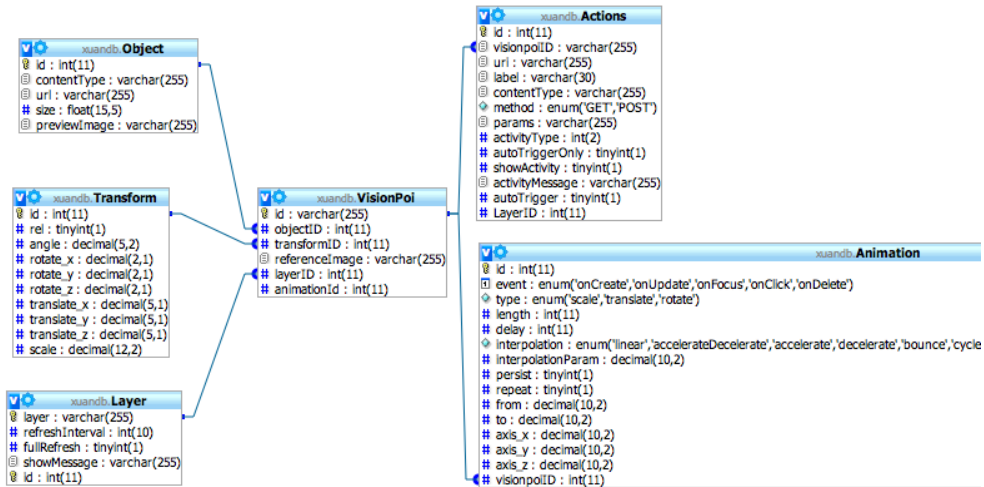
### Examples of Models required

#### Functional test Cases:

Write test cases to check that each functional/ nonfunctional requirement is working correctly when valid and invalid input is entered. Use the following table format to write test cases. Specify a unique ID for each test case. Choose a set of valid and invalid inputs for each functional requirement. Specify the expected output for each set of inputs based on the requirement. Test your code with the specified input, if your system produces the same behavior as the expected output, then the test case pass. If not, the test case fails.

Test case ID	Requirement	Input	Expected output	Actual output	Fail/Pass
1	User Login	Username="admin" Password="111"	Access the admin pages	Access the admin pages	Pass
2	User Login	Username="admin" Password=""	Error message	Access the admin pages	Fail
3	User Login	Username=" " Password="111"	Error message	Access the admin pages	Fail

## Database Mapping (Schema Diagram)



## Tables Descriptions

### city

Field	Type	Null	Default	Links to	Comments
city_id	smallint(5)	No			
city	varchar(50)	No			
country_id	smallint(5)	No		country -> country_id	
last_update	timestamp	No	CURRENT_TIMESTAMP		