Midterm Study Guide

# JavaScript Language

1. What are the fundamental data types in JavaScript?
2. What are the falsy values in JavaScript?
3. What are the truthy values in JavaScript?
4. What are the various ways that String literals can be defined? Provide examples.
5. How are Object literals created in JavaScript? Provide examples.
6. An Array is a special type of Object. Provide examples of array definitions.

Empty array

Array of Numbers

Array of Objects

1. A Function is a special type of Object. Provide examples of function definitions.
2. Provide examples of Object definitions

Empty object

Object that has a data property

Object that has a function property

Object that has an array property

# JavaScript in the Browser

1. What is the DOM?
2. How do you log a message to the console?
3. Where can you view the console messages?
4. How do you display a popup message to the user?
5. What does document.getElementById() do?
6. What does jQuery do?

# Meteor Terminology & Environment (Ch 1-2)

1. What is an “isomorphic framework”?
2. What is a “reactive programming”?
3. What is Blaze?
4. What are two alternatives to Blaze that are supported by Meteor?
5. What command creates a new Meteor project?
6. What gets created automatically when you issue the command to create a new project?
7. What command adds packages to a Meteor project?
8. How would you add Twitter Bootstrap support to a Meteor project?
9. What are some of Meteor’s strengths?
10. What are some of Meteor’s weaknesses?
11. What folder should be created to house assets like images to be available on the client?

# Blaze and Templates (Ch 3)

1. What does Blaze do?
2. ~~What are the four types of files that relate to templates?~~
3. Where are templates defined?
4. What do double-braced tags do? Triple-braced tags?
5. What are inclusion tags?
6. What are some examples of block tags?
7. Where are template helpers defined?
8. Provide a sample definition of a template helper.
9. What are some of the common event types that work across all major browsers?
10. Provide a sample definition of a template event map, for example, when a button a clicked.
11. When defining an event map key, what are the two parts that are typically required?
12. ~~What is event propogation?~~
13. ~~How do you stop an event from propagating or bubbling up the DOM?~~
14. Provide an example of a browser’s default behavior in relation to events.
15. How do you prevent the browser’s default behavior from occurring on an event?
16. What are the three stages or states of a template’s lifecycle?
17. What callback functions can be written to perform actions at each of the states of a template lifecycle?

# Session Variables and MongoDB (Ch 4-5)

1. What are session variables and what are they used for?
2. How are session variables created in code in Meteor?
3. How do you change the value of a session variable in Meteor?
4. How do you clear the value of a session variable in Meteor?
5. How would you initialize a new collection in Meteor?
6. What does the .findOne function do? Provide an example in code of how one would use it.
7. What does the .find function do? Provide an example in code of how one would use it.
8. Provide an example in code that sorts the result of a .find in descending order.
9. What does the .insert function do? What does it return? Provide an example in code of how one would use it.
10. What does the .update function do? Provide an example in code of how one would use it.
11. What does the .remove function do? Provide an example in code of how one would use it.
12. How are primary keys managed in MongoDB?
13. Which field in the object is the primary key?