

Video 2.2

Sample Application Code Architecture



In this Video, we are going to take a look at...

- Data sources
- Source code directory structure
- Server code architecture
- Client code architecture

Data Sources

Twitter API



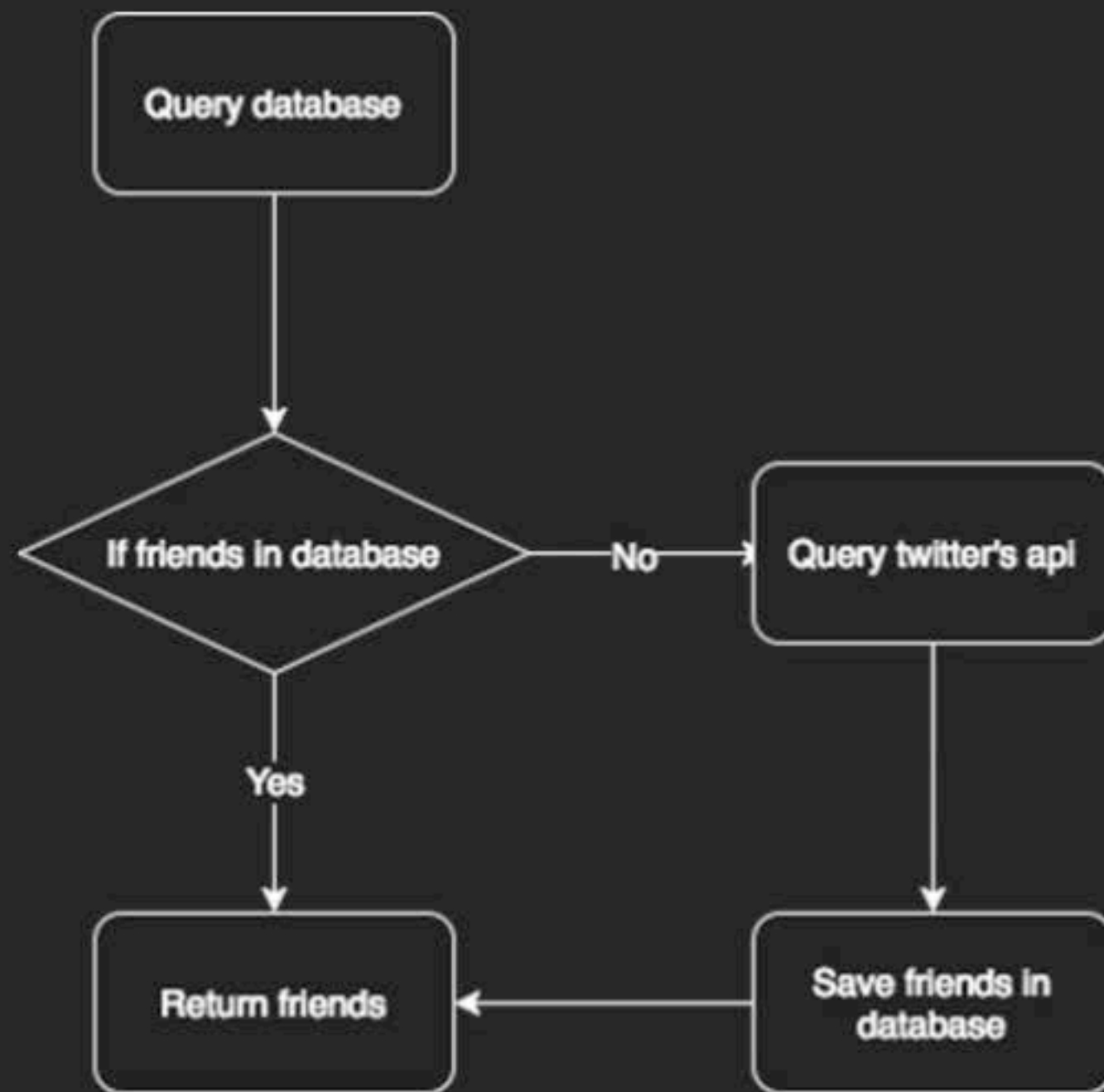
authenticator.js

Application Database



storage.js

Getting Friends



Getting Notes




```
app.js    authenticator.js    storage.js
1  module.exports = function() {
2      var url = require('url');
3      var express = require('express');
4      var bodyParser = require('body-parser');
5      var querystring = require('querystring');
6      var async = require('async');
7      var authenticator = require('./authenticator');
8      var storage = require('./storage.js');
9      var config = require('./config');
10     var app = express();
11
12     // Connect to MongoDB
13     storage.connect();
14
15     // Set the view engine to ejs
16     app.set('view engine', 'ejs');
17
18     // Add cookie parsing functionality to our Express app
19     app.use(require('cookie-parser')());
20
21     // Parse JSON body and store result in req.body
22     app.use(bodyParser.json());
23
24     // Take user to Twitter's login page
```



```
app.js    authenticator.js    storage.js
1  module.exports = function() {
2      var url = require('url');
3      var express = require('express');
4      var bodyParser = require('body-parser');
5      var querystring = require('querystring');
6      var async = require('async');
7      var authenticator = require('./authenticator');
8      var storage = require('./storage.js');
9      var config = require('./config');
10     var app = express();
11
12     // Connect to MongoDB
13     storage.connect();
14
15     // Set the view engine to ejs
16     app.set('view engine', 'ejs');
17
18     // Add cookie parsing functionality to our Express app
19     app.use(require('cookie-parser')());
20
21     // Parse JSON body and store result in req.body
22     app.use(bodyParser.json());
23
24     // Take user to Twitter's login page
```



```
app.js    authenticator.js    storage.js
160      // Show the login page
161      app.get('/login', function(req, res) {
163      });
164
165      function ensureLoggedIn(req, res, next) {
171      }
172
173      // Get notes for a friend
174      app.get('/friends/:uid/notes', ensureLoggedIn, function(req,
187      });
188
189      // Add a new note to a friend
190      app.post('/friends/:uid/notes', ensureLoggedIn, function(req
200      });
201
202      // Update a note
203      app.put('/friends/:uid/notes/:noteid', ensureLoggedIn, funct
218      });
219
220      // Delete a note
221      app.delete('/friends/:uid/notes/:noteid', ensureLoggedIn, fu
229      });
230
231      // Serve static files in public directory
```



```
app.js authenticator.js storage.js
171 }
172
173 // Get notes for a friend
174 app.get('/friends/:uid/notes', ensureLoggedIn, function(req,
187 });
188
189 // Add a new note to a friend
190 app.post('/friends/:uid/notes', ensureLoggedIn, function(req
200 });
201
202 // Update a note
203 app.put('/friends/:uid/notes/:noteid', ensureLoggedIn, funct
218 });
219
220 // Delete a note
221 app.delete('/friends/:uid/notes/:noteid', ensureLoggedIn, fu
229 });
230
231 // Serve static files in public directory
232 app.use(express.static(__dirname + '/public'));
233
234 // Start listening for requests
235 app.listen(config.port, function() {=
237 //
```



```
app.js    authenticator.js    storage.js
1  var OAuth = require('oauth').OAuth;
2  var config = require('./config');
3
4  // Create the oauth object for accessing Twitter
5  var oauth = new OAuth(
6    config.request_token_url,
7    config.access_token_url,
8    config.consumer_key,
9    config.consumer_secret,
10   config.oauth_version,
11   config.oauth_callback,
12   config.oauth_signature
13 );
14
15 module.exports = {
16   get: function(url, access_token, access_token_secret, cb) {
17     },
18   post: function(url, access_token, access_token_secret, body,
19     },
20   redirectToTwitterLoginPage: function(req, res) {
21     },
22   authenticate: function(req, res, cb) {
23     }
24 };
25
```



```
app.js    authenticator.js    storage.js
1  var MongoClient = require('mongodb').MongoClient;
2  var ObjectID = require('mongodb').ObjectID;
3  var database;
4
5  module.exports = {
6    connect: function() {
17  },
18    connected: function() {
20  },
21    getFriends: function(userId, cb) {
27  },
28    insertFriends: function(friends) {
34  },
35    getNotes: function(ownerId, friendId, cb) {
42  },
43    insertNote: function(ownerId, friendId, content, cb) {
59  },
60    updateNote: function(noteId, ownerId, content, cb) {
77  },
78    deleteNote: function(noteId, ownerId, cb) {
83  }
84 }
```



```
app.js    authenticator.js    storage.js    main.js
1  function() {
2      var selectedUserId;
3      var cache = {};
4
5      function startup() {}
38
39
40      function createNoteElements(notes) {}
79
80
81      function createAddNoteButton() {}
91
92
93      function getNotes(userId, callback) {}
109
110
111      function postNewNote(userId, note, callback) {}
123
124
125      function putNote(userId, note, callback) {}
136
137
138      function deleteNote(userId, note, callback) {}
148
149
```

Next Video

Creating an OAuth Login Request