ConFusion: Integrating the Angular Client and Server

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Integrating the Client and Server

- Server already provides REST API
- The Angular client, the Ionic client and the NativeScript client already use the REST API to interact with the server
  - Send requests to the REST API endpoints
  - Server returns reply with JSON data
- Integration should be straightforward with some minor adjustments
  - Providing Authentication service
  - Minor adjustments to the other services and components

Query Parameters

- Client side:

  this.http.get(baseURL + 'dishes?featured=true')

- URL with query parameters:

  /dishes?featured=true   { "featured": true }

- Server Side:

  dishRouter.route('/')

  .get(function (req, res, next) {

     Dishes.find(req.query)

         . . . });

  })

User Authentication

- Server-side REST API endpoints:
  - /users/signup
  - /users/login
  - /users/logout
- Client needs to be configured to send requests to these REST API endpoints for user registration and authentication

User Authentication

1. Client sends POST request to /users/login
   – request body contains username and password
2. Server validates and replies with the token if successful
   – response body contains token
3. Client saves the token in local storage
   localStorage.setItem(this.tokenKey, JSON.stringify(credentials));
4. Client includes token in the header of every subsequent request
   – Using HTTPClient's HTTP Interceptors