Flipboard Like HTML5 App – REST API Assembly

1. Project Overview

Client wants to develop a Hybrid mobile application built in HTML5/JS/CSS, which will be deployed to iOS and Android - Phone & Tablet sized.
This mobile application will aggregate RSS data from external sources, social media content, and internal content served via REST API, similar as Flipboard.
For internal content, we'd like to seek an existing content management sytem that fits our client's requirement to reduce the development effort.

In this module assembly, we will write the REST API.

2. Requirements

The REST_API.doc is in scope.
All interfaces and classes in REST API Class Diagram are in scope.
The TCUML methods have the implementation details.

2.1. REST API

Develop the REST API as defined in the REST_API document.

2.2. Persistence Details

We will be using JdbcTemplate for running SQL queries.
The JdbcTemplate itself is created using the DataSource object (which is injected into the persistence class).

```
JdbcTemplate jt = new JdbcTemplate(dataSource);
```

For querying, we will use the JdbcTemplate's `query` and `queryForObject` methods. For insert/update/delete, we use the `update` method

See section 12.2.1 of
http://docs.spring.io/spring/docs/3.0.x/spring-framework-reference/html/jdbc.html for details and examples.

2.3. Other Requirements

See ADS section 2 for cross cutting requirements like authentication, persistence, logging, configuration, exception handling, internationalization etc.

2.4. Submission Deliverables

- Source Code
- Deployment Guide to verify the submission.

2.5. Technology Overview

2.5.1. Application Technologies

- Java7
- Spring Framework 4.0.3
- Jackson JSON (whatever version bundled with Spring-framework)
- MySQL 5.6
- HTTP
- REST

3. Project Dependencies

3.1. Assemblies

None

3.2. Components

None

3.3. Third Party Libraries

See section 1.4.1

4. Project Deliverable Details

4.1. Source code setup

Standard TopCoder Assembly Contest source code setup

4.2. Build Setup

Standard TopCoder Assembly Contest ant based build setup

5. Final Submission

- For each member, the final submission should be uploaded to the Online Review Tool.
- The final submission will be reviewed using the standard Online Review Assembly Scorecard.