# Pizza Store Social Campaign Design

# ****Requirements****

# **You are helping a pizza restaurant owner who is really excited about promoting his/her business on social media. Based on the owner's wishes, you want to start advertising on Twitter.**

# **Your first step is to develop an API to tweet daily specials.**

# **You also want to reward customers automatically who tweet about the restaurant by giving them a “buy one get one free” coupon which is redeemable at the restaurant.**

# **The restaurant owner should be able to save appropriate information of all the issued coupons in a database to allow accounting/reporting.**

# **You will enable the restaurant owner to tweet daily specials and to monitor the coupons dispatched using a simple user interface(UI) which runs in a desktop browser.**

# **You will build a REST interface for all the critical APIs so that the owner can potentially integrate his/her application with other third party services.**

# ****Summary****

This is an example project to enable social & promotion features of an online pizza store. It's developed in Java and consists of Spring Framework, Jersey (JAX-RS), Bootstrap, Spring data (JPA), Hibernate, and Spring Twitter template. Main features are Twitter API, Coupon API, and Twitter monitoring. Twitter API allow publish of promotions via tweet and direct messages to connected customers. Twitter monitor check mentions & retweets and dispatch coupons to customers via direct message (if customer is connected and doesn’t have an active coupon). Coupon API allows the ability to get all coupons, get a specific coupon, redeem coupon, and creation of coupon. Bootstrap is used to build user interface to interact with all the API's. Lastly, Manager UI provides a webpage interacting with all the API’s to deliver user experience.

# Details

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| Actors | 1. User (Pizza Store Manager) 2. Web Portal 3. Pizza Store API’s (Social & Promotions) 4. Twitter Monitoring Internal Job 5. Pizza Store Database 6. Twitter API |
| Assumptions | 1. Twitter API’s are highly available 2. Twitter account is highly available |
| Trigger | A manager use portal to promote daily special on twitter. A monitoring job is checking activities. |
|  |
| Success-Conditions | The API returns success |
| Detailed Steps | | **Step #** | **Actor** | **Activities** | | --- | --- | --- | | 1 | Manager | Uses portal to create Tweet, view coupons, create & redeem coupons. | | 2 | Pizza Store | |  |  | | --- | --- | |  | 1. Request Validations are performed at API level 2. Twitter API’s interacts with Twitter to publish 3. Coupon API’s interacts with Database via JPA/Hibernate calls to perform   CRUD operations.   1. Monitor job runs in a background to check tweets related to pizza store and dispatch   Coupon to customer if they are connected and doesn’t have a valid coupon. | | |

