**Bakkle API Documentation**

Benedict Wong

1. Goal:

The goal of this document is to give an overview of the design of the backend, it’s requirements and dependencies, as well as the API calls exposed.

**2. Design:**

2.1 Protocol:

The Bakkle backend has two components: a Websocket layer handling mobile devices, as well as chat across all devices. The RESTful interface supports standard HTTP calls, which would primarily be used for serving web pages. Both the Websocket and REST APIs call common methods to process the request. This design was intentionally modular, to allow for future migration to websocket if needed.

**3. REST API:**

3.1 Authentication:

Authentication is achieved by the sending of a uuid, and authentication token with each request that requires authentication. No nonce/tonce system is currently being used, but future development may wish to integrate this for better security.

3.2 API Calls:

* Admin GUI:
  + Item index: (ADMIN)
    - **URL:** /items/
    - **Handler:** itemsRESTHandlers.indexHandler
    - **Description:** Displays index GUI page with all items on it.
  + Spam Items index: (ADMIN)
    - **URL:** /items/spam/
    - **Handler:** itemsRESTHandlers.spamIndexHandler
    - **Description:** Displays index GUI page with all spam items on it.
  + Item Detail page: (ADMIN)
    - **URL:** /items/<item\_id>/detail/
      * URL Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.itemDetailHandler
    - **Description:** Displays admin item details
  + Item Public Detail page
    - **URL:** /items/<item\_id>/
      * URL Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.itemPublicDetailHandler
    - **Description:** Displays landing page for redirections from external links (eg, facebook)
  + itemMarkDelete (ADMIN)
    - **URL:** /items/<item\_id>/delete/
      * URL Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.markDeletedHandler
    - **Description:** Marks item as deleted immediately, refreshes index
  + itemMarkSpam (ADMIN)
    - **URL:** /items/<item\_id>/spam/
      * URL Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.markSpamHandler
    - **Description:** Marks item as spam immediately, refreshes index
  + itemMarkDeleteFromSpam (ADMIN)
    - **URL:** /items/spam/<item\_id>/delete/
      * URL Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.markDeletedHandlerFromSpam
    - **Description:** Marks item as deleted immediately, refreshes spam index
  + itemMarkSpamFromSpam (ADMIN)
    - **URL:** /items/spam/<item\_id>/spam/
      * URL Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.markSpamHandlerFromSpam
    - **Description:** Marks item as deleted immediately, refreshes spam index.
* Items API:
  + reset
    - **Authenticated: Yes.**
    - **URL:** /items/reset/
      * Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.resetHandler
  + feed
    - **Authenticated: Yes.**
    - **URL:** /items/feed/
      * Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.feedHandler
  + meh
    - **Authenticated: Yes.**
    - **URL:** /items/meh/
      * Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.mehHandler
  + want
    - **Authenticated: Yes.**
    - **URL:** /items/want/
      * Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.wantHandler
  + hold
    - **Authenticated: Yes.**
    - **URL:** /items/hold/
      * Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.holdHandler
  + sold
    - **Authenticated: Yes.**
    - **URL:** /items/sold/
      * Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.soldHandler
  + report
    - **Authenticated: Yes.**
    - **URL:** /items/report/
      * Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.reportHandler
  + add\_item
    - **Authenticated: Yes.**
    - **URL:** /items/add\_item/
      * Parameters:
        + title
        + description
        + location
        + price
        + item\_id (optional, for edit item)
        + image
        + videos
    - **Handler:** itemsRESTHandlers.addItemHandler
  + delete\_item
    - **Authenticated: Yes.**
    - **URL:** /items/delete\_item/
      * Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.deleteItemHandler
  + spam\_item
    - **Authenticated: Yes.**
    - **URL:** /items/spam\_item/
      * Parameters:
        + item\_id
    - **Handler:** itemsRESTHandlers.spamItemHandler
  + get\_seller\_items
    - **Authenticated: Yes.**
    - **URL:** /items/get\_seller\_items/
    - **Handler:** itemsRESTHandlers.getSellerItemsHandler
  + get\_seller\_transactions
    - **Authenticated: Yes.**
    - **URL:** /items/get\_seller\_transactions/
    - **Handler:** itemsRESTHandlers.getSellerTransactionsHandler
  + get\_buyers\_trunk
    - **Authenticated: Yes.**
    - **URL:** /items/get\_buyers\_trunk/
    - **Handler:** itemsRESTHandlers.getBuyersTrunkHandler
  + get\_holding\_pattern
    - **Authenticated: Yes.**
    - **URL:** /items/get\_holding\_pattern/
    - **Handler:** itemsRESTHandlers.getHoldingPatternHandler
  + get\_buyer\_transactions
    - **Authenticated: Yes.**
    - **URL:** /items/get\_buyer\_transactions/
    - **Handler:** itemsRESTHandlers.getBuyerTransactionsHandler
  + get\_delivery\_methods
    - **URL:** /items/get\_delivery\_methods/
    - **Handler:** itemsRESTHandlers.getDeliveryMethodsHandler
* Accounts GUI:
  + accountIndex (ADMIN)
    - **URL:** /account/
    - **Handler:** accountsRESTHandlers.indexHandler
  + dashboard (ADMIN)
    - **URL:** /account/dashboard/
    - **Handler:** accountsRESTHandlers.accountDashboardHandler
  + accountDetail (ADMIN)
    - **URL:** /account/<account\_id>/detail/
      * URL Parameters:
        + account\_id
    - **Handler:** accountsRESTHandlers.accountDetailHandler
  + accountReset (ADMIN)
    - **URL:** /account/<account\_id>/reset/
      * URL Parameters:
        + account\_id
    - **Handler:** accountsRESTHandlers.accountResetHandler
  + deviceNotifyAll (ADMIN)
    - **URL:** /account/<account\_id>/notify/
      * URL Parameters:
        + account\_id
    - **Handler:** accountsRESTHandlers.deviceNotifyAllHandler
  + deviceDetail (ADMIN)
    - **URL:** /account/device/<device\_id>/detail/
      * URL Parameters:
        + account\_id
    - **Handler:** accountsRESTHandlers.deviceDetailHandler
  + deviceNotify (ADMIN)
    - **URL:** /account/device/<device\_id>/notify/
      * URL Parameters:
        + account\_id
    - **Handler:** accountsRESTHandlers.deviceNotifyHandler
* Accounts API:
  + login\_facebook
    - **URL:** /account/login\_facebook/
      * Parameters:
        + user\_id
        + device\_uuid
        + user\_location
        + app\_version
        + is\_ios (defaults to true)
        + flavor (defaults to 1)
    - **Handler:** accountsRESTHandlers.loginFacebookHandler
  + logout
    - **Authenticated: Yes.**
    - **URL:** /account/logout/
    - **Handler:** accountsRESTHandlers.logoutHandler
  + facebook
    - **Authenticated: Yes.**
    - **URL:** /account/facebook/
      * user\_id
      * name
      * device\_uuid
      * flavor (defaults to 1)
    - **Handler:** accountsRESTHandlers.facebookHandler
  + settings
    - **URL:** /account/settings/
    - **Handler:** accountsRESTHandlers.settingsHandler
  + device\_register\_push
    - **Authenticated: Yes.**
    - **URL:** /account/device/register\_push/
      * device\_token
    - **Handler:** accountsRESTHandlers.deviceRegisterPushHandler
  + set\_description
    - **Authenticated: Yes.**
    - **URL:** /account/set\_description/
      * Parameters:
        + description
    - **Handler:** accountsRESTHandlers.setDescriptionHandler
  + get\_account
    - **Authenticated: Yes.**
    - **URL:** /account/get\_account/
      * accountId
    - **Handler:** accountsRESTHandlers.getAccountHandler
* Others:
  + Websocket Connection:
    - **URL:** /WS/
    - **Handler:** baseWSHandlers.BaseWSHandler

4. Websocket:

4.1 Authentication:

Authentication is achieved by the sending of a uuid (uuid) and authentication token (auth\_token) with each request.