Backlog Task

Title: Implement API POST/Order (Market Order Placement)

Description: API should create user's market order and send notification to the user about success creation or an error.

API should:

1. Validate order request (by preconditions).
2. If validation is ok, create an order record in the DB with status 'pending'. Else send to the user error message.
3. Send the order to the Order Processing Engine for execution.
4. Update the order status (if execution is ok 'filled', else 'rejected').
5. Return the final status or an appropriate error to the client.
6. Initiate sending notification process.

API description is in place-market-order.yaml

The whole process is in diagram.png

User-stories, requirements, preconditions and error handling is in User-stories.pdf

Acceptance Criteria:

1. Backend performs input validation
2. Order is stored in the database with status 'pending' if validation is ok, else there is no record.
3. Send order to Order Processing Engine to execute and get result execution. In DB order status updates: if execution is ok 'filled', else 'rejected'.
4. API returns response with order details or an error.
5. Errors are logged.
6. User gets an order execution notification.

Priority: High

Estimation: 8 hours

Tags: backend | trading | api | orders