

DSL for stock market

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Plan of a second stage

- **High level reminder**
- **Description**

Second stage plan - reminder

- **DSL correctness checker returning info about error location**
- **Contract with mobile app company - and they start working on it**
- **Web service allowing DSL execution and returning resulting streams of stock data from database**
- **Integration tests plan**
- **GUI - advanced graph transformations and types of charts**

Plan stage overview

Each high level product - eg. One bullet - will have its separate page with in depth execution plan

DSL correctness checker

- **Having a parser which embeds info about in-source-location of AST nodes**
- **Specifying a list of errors that can occur when checking correctness of a program**
- **Creating descriptive messages for such errors**
- **Checker of DSL correctness with embedded returning or errors from the list above**
- **Making checker recoverable - so it could return more than one error**

Mobile app contract

- **Creating application design - notifications from DSL as its only feature**
- **Finding appropriate company - most likely via web, that will agree to work on such application**
- **Creating agreement draft**
- **Validating agreement draft with a lawyer**
- **Then if the company agrees, signing it**
- **Controlling every two weeks progress of work - this requires having a hidden list of expectations**

Web service for DSL

- **Creating a list of common event types that people could want to react to on stock market**
- **Module for execution of DSL when an event happens**
- **Extending DSL with event specification statements - so user could define new events - based on list of common events**
- **Periodic checking if a event trigger conditions are met - for all user defined events**
- **Implementing returning of DSL results via web**

Integration tests plan

- **Integration tests plan for execution of DSL on events - this means integration of web service and mobile**
- **Integration tests plan for web service and GUI application pair**

GUI

- **Creating a comprehensive list of charts and operations that TA analysis people perform on them**
- **Extending user facing graph specification - a Visual Basic library with execution environment embedded in GUI - with operations from the list.**
- **Effectively, there will be two interfaces - one low level, used to implement high level common operations used by TA. Both will be exposed to people**