

# DSL for stock market

Filip Plata



# Quality

- **Unit and integration tests as in any decent software**
- **DSL core must be covered by tests much more than the GUI**
- **Audit of core DSL code at the end**
- **Tests run on every change, at least 30% coverage for GUI, 80% for DSL**
- **Code review required for changes**

# Communication

- **During first stage, daily for ~15 minutes every day**
- **In consecutive stages weekly whole team meetings for about 1 hour, and no daily. The reasoning is that people will know what to do, there are quite clear interfaces**
- **Slack for messaging**
- **Sprint planning and reviews with only project manager and person representing partner broker - ~1h each**
- **Every month review of the project with the board ~ 4h**

# Configuration

**Just before starting project, project manager has to setup the following:**

- **Gerrit**
- **Jira**
- **Slack**
- **Jenkins for CI**
- **Aws testing server, always with latest version of server. GUI developer will use a simple mockup done over the evening, so no staging environment**

# Product stages

- **List of products in stages**
- **Image summarizing them**

# First stage - two months

- **DSL specification and interpreter working only on correct input**
- **Pipeline for loading data from stock market into database**
- **First version of GUI with layout and displaying simplest charts (trend) based on mockup data**

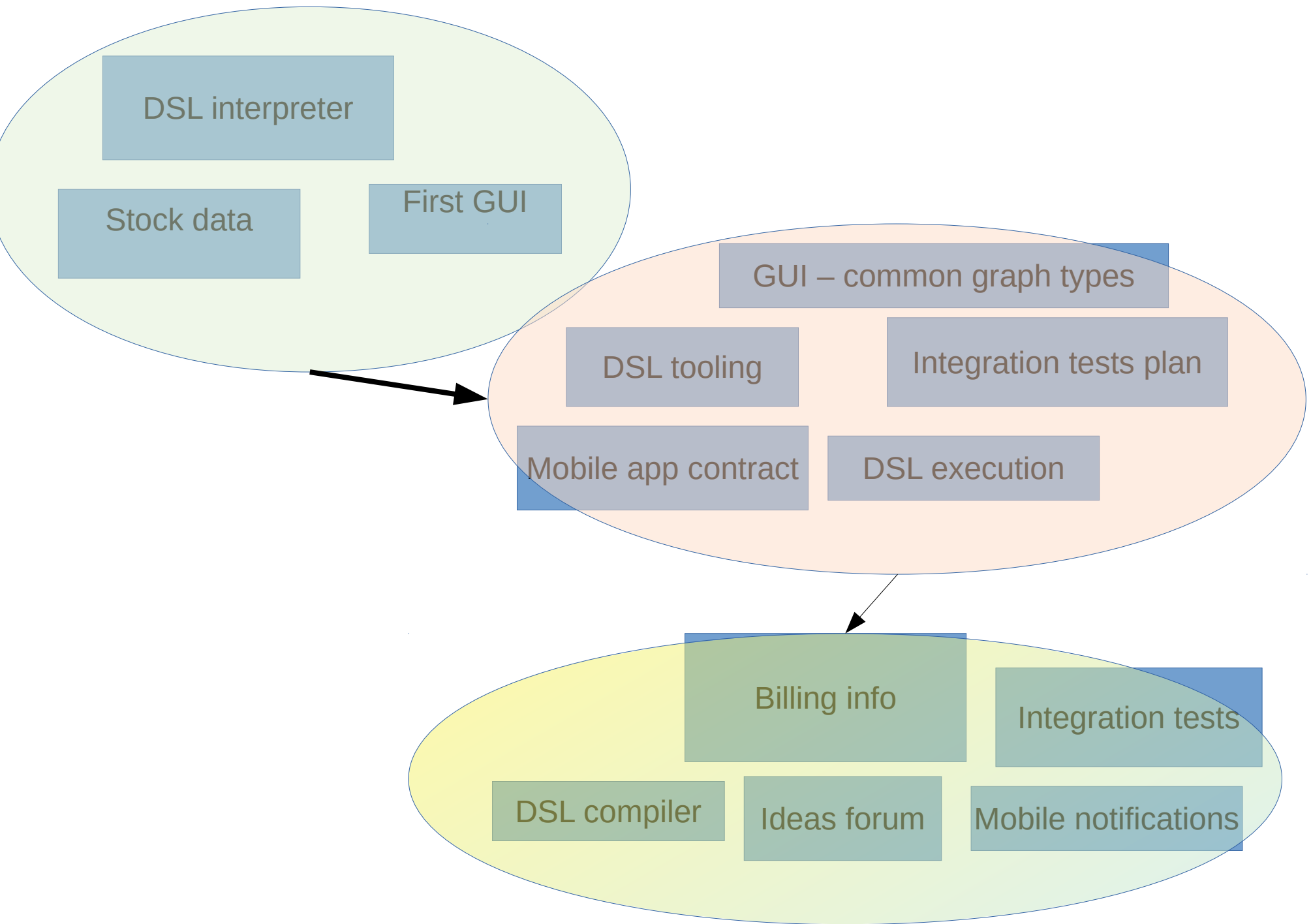
## **Second stage - three months**

- **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**

## **Third stage - two months**

- **DSL compiler**
- **Running DSL when specified events occur**
- **Web service for DSL measures resource consumption for billing**
- **Sending notifications from web service to mobile app**
- **Creating/executing integration tests**
- **Integrating GUI with full functionality of Web service**
- **Ideas forum**





# Budget

- **Products : ~255,000 PLN**
  - **Risks: ~70,500 PLN**
  - **Buffer: ~ 35,000 PLN (10% of products + risks)**
- Total: 360,500 PLN**