

6.1. [20 points] Consider the soft goals

- Take products to market quickly
- Create products efficiently

Apply the Goals-Activities-Metrics approach to create an action plan, where the actions result in progress toward achieving the goals.

- Show the questions you used to elaborate the goals. Be sure to consider alternatives during goal elaboration.
- Show the resulting goal hierarchy. Distinguish between and-nodes and or-nodes.
- Does any goal contribute to a goal in another subtree? Are there any conflicting goals?
- Associate metrics with each goal in the hierarchy.
- Create an action plan based on your hierarchy.
- Assess the effectiveness of the action plan derived using this approach. In your opinion, will the action plan achieve the initial soft goals? Explain your answer.

- Take products to market quickly?

Goal: Take products to market quickly.

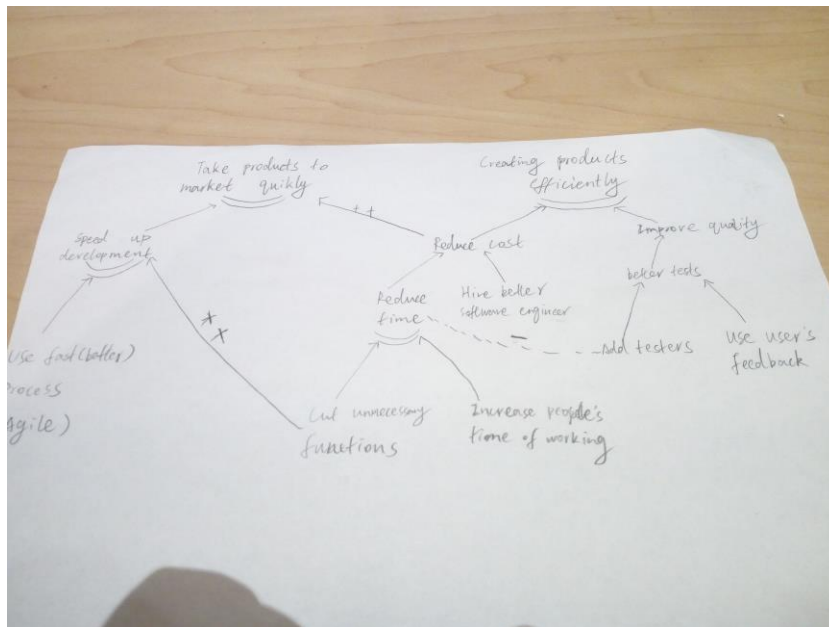
How? Reduce cost(time).

How else? Increase the speed of development.

Goal: Creating the products efficiently.

How? Reduce cost.

How else? Improve the quality.



- And c) are in above graph

d) Goal: Use faster process.

Activity: Optimize the currently using process or started using scrum.

Metrics: Iteration report.

Goal: To cut unnecessary functions of the product.

Activity: Based on the user's feedback and developer's suggestions, vote for the function to give up.

Metrics: Later user's feedbacks.

Goal: Improve quality.

Activity: Write more tests to check.

Metrics: Reports generated from tests.

e)

Action:

Speed up the development

Reduce development time

Improve product's quality

Objective:

Take product to market quickly

Take product to market quickly and create it efficiently

Creating the product efficiently

f)

There may be a problem that increasing the quality would conflict with speeding up the development.

Since more tests will be used to make a better product, this increased the time and also need more people at that time.

6.2. [20 [points] The following are among the top-rated questions from a 2014 study of questions related to software development.

1. How effective are the code reviews prior to code check-in?
2. What parts of a software product are most used and/or loved by customers?
3. How can we improve collaboration and sharing between teams?
4. What is the impact of tools on productivity?

For each question

- a) Identify higher-level goals related to the questions.
- b) Refine the higher-level goal to come up with actions. Show your work.
- c) Associate metrics with each goal.

1.

a)

Increase the correctness of the source code.

b)

Adding more system tests to increase the correctness and quality of the product.

c)

Code pass the tests before pushing into the project

2.

a)

Find the taste of customer of the product.

b)

Ask feedbacks from customers who purchase the product.

c)

Surveys are filled by customers who used the product.

3.

a)

Increase the working efficiency between teams.

b)

Have meetings with developers from different teams.

c)

People give out advice and feedbacks from different teams.

4.

a)

Knowing the importance of tools during the development.

b)

Testing tools' impact with smaller development samples.

c)

Reporters of the tests (examination) shows how important each tool is on productivity.