## Method choice

In order to fulfil whole project requirements, make system development efficient within given period and take in to consideration all the risks within new system appropriate software development methodology should be chosen. In terms of software development, methodology includes procedures, tools and different techniques which help developers implement new system. There are two main methodologies to choose between Heavy Methodologies and Light Methodologies, which also called plan driven and agile. There is also possible to combine two methodologies to achieving greater result.

When selecting appropriate methodology some factors which have an influence on the project must be chosen in to consideration:

* Size of the project
* Size of the team
* Customer organizational culture
* Primary project goal
* Dynamics in the requirements

### Size of the project

The project size factor affects choosing methodology drastically. Usually the biggest projects increase number of people working on it, and it should be well process documented in order to better communication across large groups. Our project quite small therefore there is reason to use light methodology.

### Size of the team

Depending on the project complexity and size different amount of developers may work on it. To have higher efficiency in the big groups it is more appropriate to use heavy methodologies. Our team is quite small only 4 people. In such small group is better to use light methodology so to be more dynamic by interactions and clear responsibilities.

### Customer organizational culture

There are different types of contracts between client and development team which determine the relationship between them during development process. If customer interested in close cooperation with team and has intention to have contact with it as often as possible light methodology should be taken in consideration, otherwise plan driven method is going to be more suitable for that purpose. In our team each of us takes the customer role in some cases and one person in other cases. It means that we are in touch all the time during the project and agile should be chosen in our case.

### Primary project goal

This factor relies on the final purposes of the project which determine if project is safety critical and requires high assurance with predefined requirements so plan driven development fits better. Our project is not safety critical and we are going to use agile in that case in order to assure that we have possibilities to add new features and methods in our system.

### Dynamics in the requirements

Do we have stable requirements and they can be determined in advance? If we answer this question yes we may use plan driven method, otherwise agile fits better. Our system is not predefined and requirements are not stable all the time, they change accordingly our gained experience in previous iterations and development.

### Conclusion

Based upon made investigation the chosen methodology is Agile. This methodology entirely fulfils our needs and choose it would be rational decision.

### 