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| Business Analysis  Individual Project: Cellular automaton |
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# Business Analysis

## Individual Project: Cellular automaton

## Requirements specification

### Summary – overview

Aim of this document is to model requirements specification from the business side of a Cellular Automaton application as provided for Individual Project subject for Computer Science classes. Specification contained here follows preparation of technical documentation, with all implementation details and decisions, as we will not discuss them certainly here. Document is divided into several parts, starting from notion description (dictionary/glossary), general specification description, user stories about the project, supplementary specification (user stories addition), and finally: conclusion and last summary about this document.

It was decided to use user stories as primary requirements, user paths and fundamental sources of data basis, due to their compactness, value, negotiability and testing properties. As supplement to them, non-functional requirements (as performance, usability, security) are specified, along with description of Graphical User Interface (GUI).

### Notion description

Cellular automaton – a set of multi-state cells on a defined grid of decided shape that evolves during a number of steps, according to a collection of rules based on the states of neighboring cells.

GUI – Graphical User Interface, part that interacts with end-users during regular program run. Allows to manipulate program data or input, and present results accordingly.

User story – basis of requirement, single or complex sentence, usually articulated with everyday language of user, with little detail, but it’s open to interpretation. One user story describes one requirement of developed software

### General specification

Software developed on the basis of this document is called professionally a Cellular Automation. Generally speaking, it is a computer program, that simulates a life of requested number of multi-state cells on a grid plane. Thus, main window should present that grid. Users are able to specify rules that indicate how cells will grow or die, in separate, chosen ways to do so.

### User stories

### Supplements

#### Non-functional requirements

#### Graphical User Interface description

### Conclusion