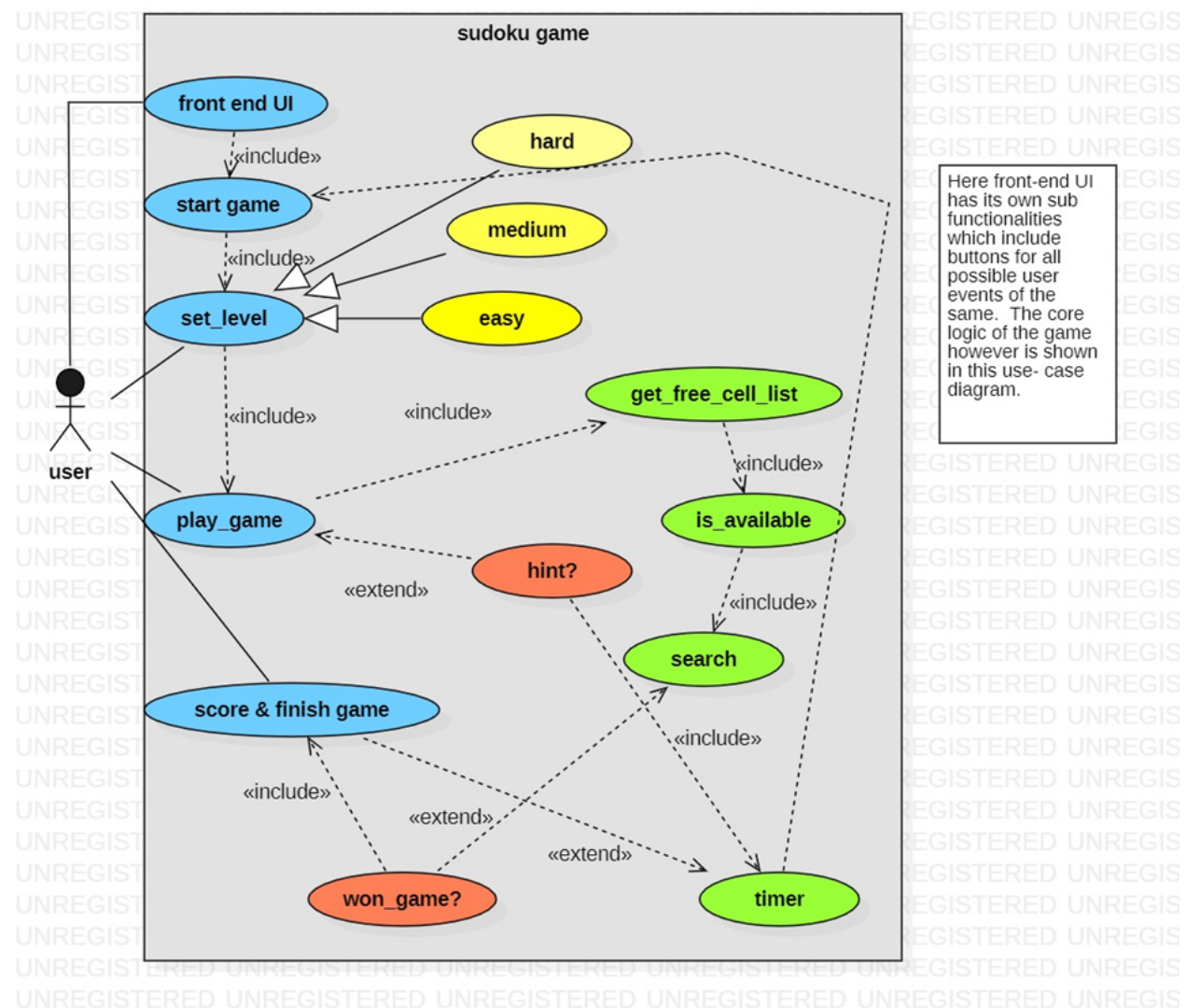


OOADJ ASSIGNMENT: PROJECT DEFINITION AND USE CASE DIAGRAM

PROBLEM STATEMENT:

To build an application which enables users to play a game of sudoku with a suitable front end and the ability to play multiple levels with appropriate solutions.

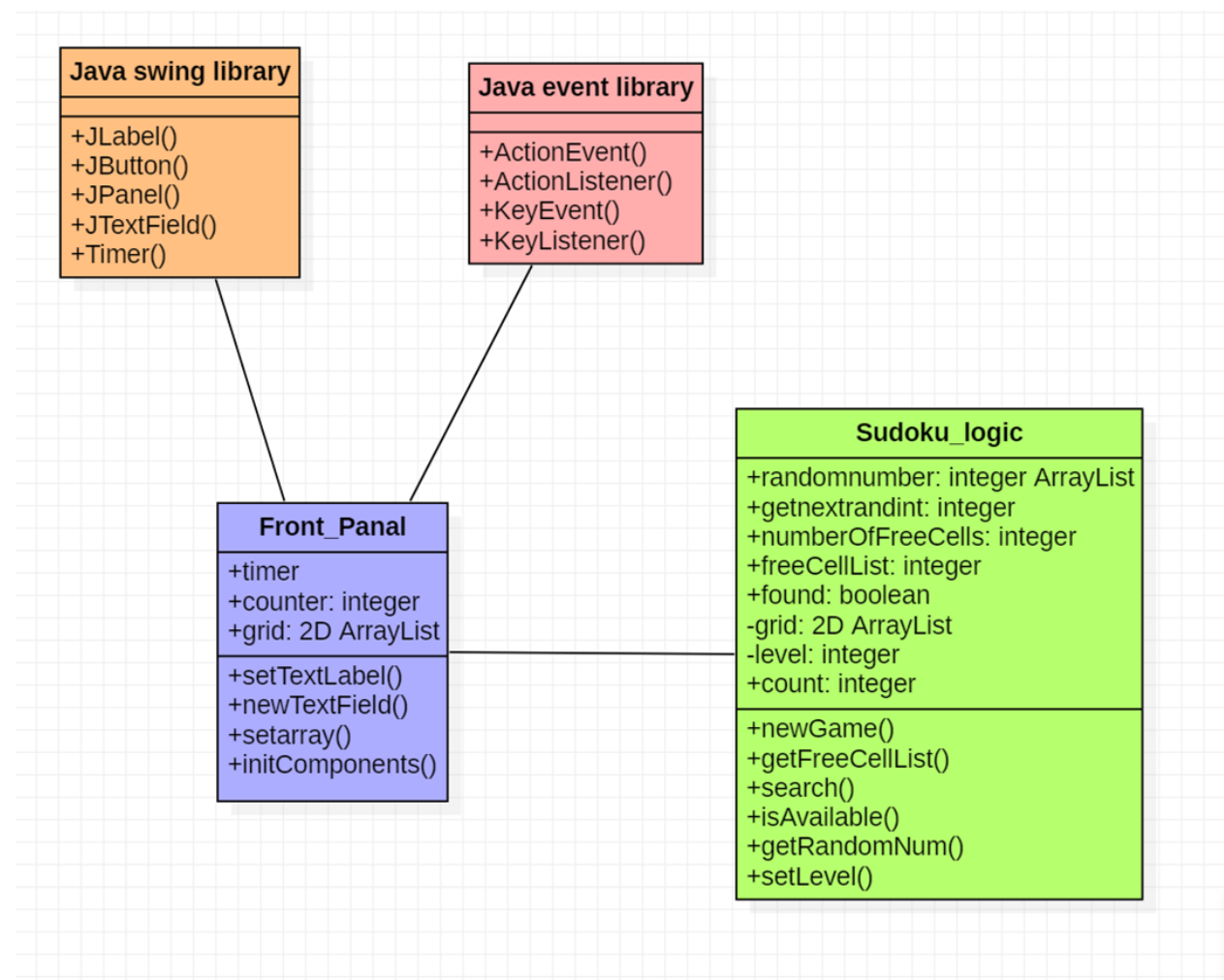
Use cases diagram:



The use case diagram has use cases marked in certain colors:

1. **blue:** use-cases associated to the user directly
2. **yellow:** generalized categories
3. **green:** core logic of the game and internal use cases of the application. (they are included)
4. **orange:** extended use cases as per user choice.

UML CLASS DIAGRAM:



TEAM1: WORK BREAKDOWN OF CLASSES

Nivedhita: (Class Sudoku_logic): Core JAVA implementation of logic of the game (Recursive backtracking)

Riya: (Class Panal) :Front end/UI using Swing

Nithin: Edge-case and button semantics along with assist in UI and logic