**Magical Chess Documentation**

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**2110215 Programming Methodology**

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Task Management

Introduction

Class diagram

Implementation detail

1.Package models

1.1 class MainInterface

1.1.1 Fields

|  |  |
| --- | --- |
| - int idxTaskFile |  |
| - List<TaskFile> taskFiles |  |

1.1.2 Methods

|  |  |
| --- | --- |
| + MainInterface() |  |
| + void addTaskFile(String title,FileType fileType, MainInterface mainInterface) |  |
| + void addTaskFile(JSONObject jsonObject, MainInterface mainInterface) |  |
| + TaskFile findTaskFile(int id) |  |
| + void deleteTaskFile(int id) |  |
| getters and setters for all variables |  |

1.2 class TaskFile implements Exportable

1.2.1 Fields

|  |  |
| --- | --- |
| - int id |  |
| - MainInterface mainInterface |  |
| - Displayable display |  |

1.2.2 Methods

|  |  |
| --- | --- |
| + TaskFile(int id, String title, FileType fileType, MainInterface mainInterface) |  |
| + TaskFile(int id, JSONObject jsonObject, MainInterface mainInterface) |  |
| + Displayable jsonToDisplay(JSONObject jsonTaskFileObject) |  |
| + JSONObject getJsonObject() |  |
| + void deleteTaskFile(int id) |  |
| getters and setters for all variables except id’s setter |  |

1.3 class PersonalDisplay implements Displayable,Exportable

1.3.1 Fields

|  |  |
| --- | --- |
| - int id |  |
| - int idxListNode |  |
| - String name |  |
| - List<NodeList> nodeLists |  |

1.3.2 Methods

|  |  |
| --- | --- |
| + PersonalDisplay(int id, String name) |  |
| + void addNodeList(NodeList List) |  |
| + void removeNodeList(int id) |  |
| + NodeList getNodeList(int id) |  |
| + JSONObject getJsonObject() |  |
| getters and setters for all variables except id’s setter |  |

1.4 class TeamDisplay implements Displayable,Exportable

1.4.1 Fields

|  |  |
| --- | --- |
| - int id |  |
| - int idxListNode |  |
| - String name |  |
| - List<NodeList> nodeLists |  |
| - List<Member> members | // TODO |

1.4.2 Methods

|  |  |
| --- | --- |
| + TeamDisplay(int id, String name) |  |
| + void addNodeList(NodeList List) |  |
| + void removeNodeList(int id) |  |
| + NodeList getNodeList(int id) |  |
| + void addMember(Member member) |  |
| + void removeMember(int id) |  |
| + Member getMember(int id) |  |
| + JSONObject getJsonObject() |  |
| getters and setters for all variables except id’s setter |  |

1.5 class NodeList implements Exportable

1.5.1 Fields

|  |  |
| --- | --- |
| # int id |  |
| # Displayable displayOwner |  |
| # int idxCard |  |
| # String title |  |
| # List<Card> cards |  |

1.5.2 Methods

|  |  |
| --- | --- |
| + NodeList(int id, Displayable displayOwner, String title) |  |
| + void addCard(Card card) |  |
| + void removeCard(int id) |  |
| + Card getCard(int index) |  |
| + JSONObject getJsonObject() |  |
| getters and setters for all variables except id’s setter |  |

1.6 abstract class Card

1.6.1 Fields

|  |  |
| --- | --- |
| - int id |  |
| - NodeList nodeListOwner |  |
| - String title |  |
| - String description |  |
| - LocalDate date |  |
| - int idxCheckLists |  |
| - List<ChecklistItem> checkLists |  |

1.6.2 Methods

|  |  |
| --- | --- |
| + NodeList(int id, Displayable displayOwner, String title) |  |
| + void addCard(Card card) |  |
| + void removeCard(int id) |  |
| + Card getCard(int index) |  |
| + JSONObject getJsonObject() |  |
| getters and setters for all variables except id’s setter |  |

1.7 class TeamCard extends Card implements Exportable

1.7.1 Fields

|  |  |
| --- | --- |
| - List<Member> members |  |
| - Priority priority | // TODO |

1.7.2 Methods

|  |  |
| --- | --- |
| + TeamCard(int id,NodeList nodeListOwner, String title) |  |
| + void addMember(Member member) |  |
| + void removeMember(int id) |  |
| + Member getMember(int id) |  |
| + JSONObject getJsonObject() |  |
| getters and setters for all variables |  |

1.8 class PersonalCard extends Card implements Exportable

1.8.1 Fields

|  |  |
| --- | --- |
| - Label label | // TODO |

1.8.2 Methods

|  |  |
| --- | --- |
| + PersonalCard(int id,NodeList nodeListOwner, String title) |  |
| + JSONObject getJsonObject() |  |
| getters and setters for all variables |  |

1.9 class CheckListItem implements Exportable

1.8.1 Fields

|  |  |
| --- | --- |
| - int id |  |
| - String title |  |
| - boolean isChecked |  |

1.8.2 Methods

|  |  |
| --- | --- |
| + ChecklistItem(int id,String title) |  |
| + void toggleChecked() |  |
| + JSONObject getJsonObject() |  |
| getters and setters for all variables except id’s getter |  |

1.10 class Member implements Exportable // TODO

1.11 class Label implements Exportable // TODO

2.Package enums

2.1 enum FileType

|  |  |
| --- | --- |
| Personal |  |
| Team |  |

2.2 enum Priority

|  |  |
| --- | --- |
| LOW |  |
| MEDIUM |  |
| HIGH |  |
| NONE |  |

3.Package interfaces

3.1 interface Displayable

3.1.1 Methods

|  |  |
| --- | --- |
| + String getName() |  |
| + List<NodeList> getNodeList |  |

3.2 interface Exportable

3.2.1 Methods

|  |  |
| --- | --- |
| + JSONObject getJsonObject() |  |

4.Package controllers

5.Package app

5.1 Main

5.1.1 Fields

|  |  |
| --- | --- |
| - MainInterfaceUI mainInterfaceUI |  |
| - Stage primaryStage |  |
| - int taskFieldOpening |  |

5.1.3 Methods

|  |  |
| --- | --- |
| + void start(Stage primaryStage) |  |
| + void main(String[] args) |  |