XCRAM
Data Design Document

Submitted to:

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In partial fulfillment of Academic Requirements
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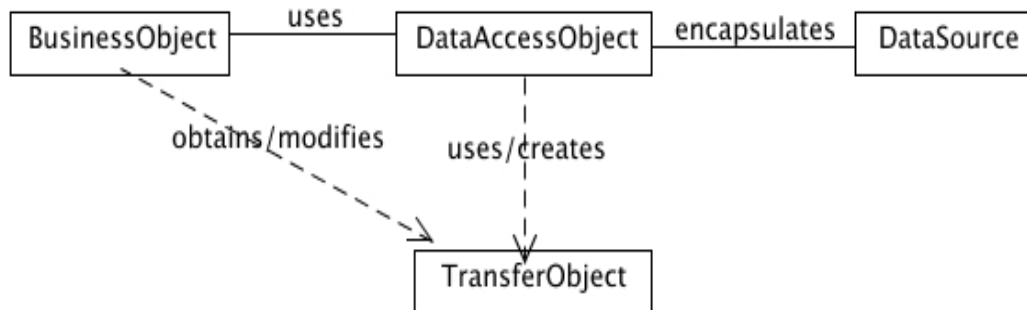of the
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Revision Control

History Revision:

Revision Date	Person Responsible	Version Number	Modification
11/18/16	Gerry P. Agluba	1.0	Initial Document; Make csv format for data files: Schedules, TimeBlocks, Tasks, SaveScheduleList, and TaskPriorityQueue

Data Design:

[In this section, place here the class diagram].

| BusinessObject | — uses — | DataAccessObject | — encapsulates — | DataSource |

(class diagram: BusinessObject —uses— DataAccessObject —encapsulates— DataSource; BusinessObject ⤏ obtains/modifies ⤏ TransferObject; DataAccessObject ⤏ uses/creates ⤏ TransferObject)

Data Access Object (DAO) Classes:

Class Name	Description

TransferObject Classes:

Class Name	Description

List of Data Source:

Data Source Name: Schedules.csv
Description: Schedule.csv contains all schedules

Sample Source File:
Format: <scheduleReferenceNumber>::<name>:<nextScheduleReferenceNumber>:

```
1::MYDailySchedule:8:

3::WeekendSchedule:-1:

0::!:1:
```

Data Source Name: TimeBlocks.csv
Description: TImeBlock.csv contains data involving Timeblocks and the Schedule they currently residing in.

Sample Source File:
Format: <timeblockid> ::<startTime>
:<endTime>:<duration>:<taskId>:<prevTimeblockId>:<nextTimeBlock>
:<scheduleReferenceNumber:

```
1::1130:1330:0200:-1:6:9:3:

6::0900:1130:0230:17:-1:1:3:

9::1330:2400:1070:18:1:-1:3:
```

Data Source Name: Tasks.csv
Description: Tasks.csv contains all data involving a task

Sample Source File:
Format: <taksId> :: <taskname> : <type> :<duration>:<mustart>:<mustend>:<priority>:
<ScheduleReferenceNumber>:

```
6::CS191Class:0:0200:1130:1330:-1:3:

7::CS131Class:0:0300:430:1730:-1:3:

8::Review:1:0500:1830:2330:2:3:

13::Review:1:0200:1130:1330:1:7:
```

Data Source Name: PriorityQueue.csv
Description: PriorityQueue.csv is a queue of tasks kicked by the scheduler, either to be rescheduled or to be vanished permanently from the current schedule.

Sample Source File:
Format: <taksId> ::<taskname>:<priorityKey>

```
13::Go shopping:8

14::exercise: 11

18::date:5
```