RUPE
Data Design Document

Submitted to:

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Unique Reference:

This document is stored in the following link:

https://github.com/chinadupaya/RUPE/tree/master/03-Design%20Engineering under the file name 'RUPE - Data Design.pdf'.

Document Purpose:

The purpose of this document is to show how data is designed and organized for the RUPE application. This document will contain our data design model, as well as the list of Data Access Objects (DAO) featured in our data design model.
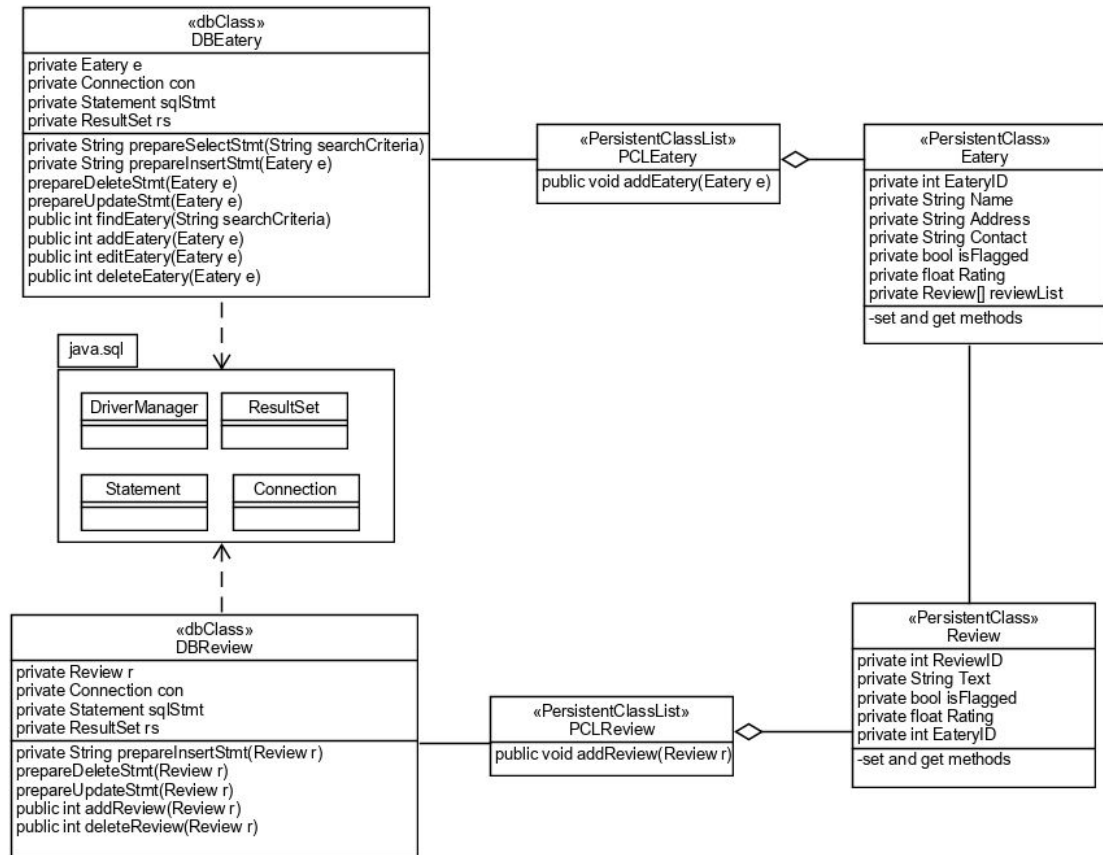
Target Audience:

The target audience of this document includes the developers of the RUPE application to use as reference in its development as well as for whoever wishes to use this document for analysis and review. It also includes anyone who wishes to track our progress for the course CS 191 - Software Engineering I.

Revision Control

History Revision:

Revision Date	Person Responsible	Version Number	Contribution/Modification
10/21/2019	Annysia Dupaya	1.0	Initial Document.
10/22/2019	Dylan Bayona	1.1	Added unique reference and more text to document purpose and target audience
10/23/2019	Annysia Dupaya	1.2	Created the Data Designs
10/23/2019	Makki Villaluz	1.3	Added list of Data Access Objects
10/23/2019	Dylan Bayona	1.4	Added list of Transfer Objects
10/23/2019	Makki Villaluz	1.5	Added database name, description, and tables
10/24/2019	Annysia Dupaya	1.6	Edited Data Designs and database tables.

Data Design:


```
          «dbClass»
          DBEatery
─────────────────────────────────────
private Eatery e
private Connection con
private Statement sqlStmt
private ResultSet rs
─────────────────────────────────────
private String prepareSelectStmt(String searchCriteria)
private String prepareInsertStmt(Eatery e)
prepareDeleteStmt(Eatery e)
prepareUpdateStmt(Eatery e)
public int findEatery(String searchCriteria)
public int addEatery(Eatery e)
public int editEatery(Eatery e)
public int deleteEatery(Eatery e)
```

```
      «PersistentClassList»
          PCLEatery
─────────────────────────────
public void addEatery(Eatery e)
```

```
        «PersistentClass»
            Eatery
─────────────────────────
private int EateryID
private String Name
private String Address
private String Contact
private bool isFlagged
private float Rating
private Review[] reviewList
─────────────────────────
-set and get methods
```

```
java.sql
┌──────────────┬──────────────┐
│ DriverManager│  ResultSet   │
├──────────────┼──────────────┤
│              │              │
├──────────────┼──────────────┤
│  Statement   │  Connection  │
├──────────────┼──────────────┤
│              │              │
└──────────────┴──────────────┘
```

```
          «dbClass»
          DBReview
─────────────────────────────────
private Review r
private Connection con
private Statement sqlStmt
private ResultSet rs
─────────────────────────────────
private String prepareInsertStmt(Review r)
prepareDeleteStmt(Review r)
prepareUpdateStmt(Review r)
public int addReview(Review r)
public int deleteReview(Review r)
```

```
      «PersistentClassList»
          PCLReview
─────────────────────────────
public void addReview(Review r)
```

```
        «PersistentClass»
            Review
─────────────────────────
private int ReviewID
private String Text
private bool isFlagged
private float Rating
private int EateryID
─────────────────────────
-set and get methods
```

Data Access Object (DAO) or DBClasses:

Class Name	Description
DBReview	This data access object is responsible for getting the review data from the database
DBEatery	This data access object is responsible for getting the eatery data from the database

TransferObject or Persistent Classes:

Class Name	Description
Eatery	This transfer object or persistent class is responsible for holding a single eatery record
EateyList	This transfer object or persistent class is responsible for holding a list of eatery records
Review	This transfer object or persistent class is responsible for holding a single review record
ReviewList	This transfer object or persistent class is responsible for holding a list of review records

Database Name: RUPE Database

Description: This is the database that contains the list of eateries and their corresponding reviews. The following are the list of tables:

Tables	Descriptions
Eatery	It contains the records of the eateries.
Reviews	It contains the reviews for a particular eatery.

Logical Database Design:

Eatery					
E_ID	**Name**	**Address**	**Contact**	**isFlagged**	**Rating**
int	varchar(256)	varchar(256)	varchar(20)	boolean	float
65536	x(256)	x(256)	x(20)	2	5
PK, ND, SA	UA	UA	UA	UA	UA
1	NIGS	Velasquez St.	9238476523	FALSE	4.9
2	CASAA	Univ Ave.	9123456789	TRUE	4.6
3	Snack Shack	J.P. Laurel St.	9987654321	FALSE	4.8

Review				
R_ID	**e_id**	**Text**	**isFlagged**	**reviewRating**
int	int	varchar(1024)	boolean	float
65536	65536	x(1024)	2	5
PK, ND, SA	FK, NN			NN
1	1	"good service"	FALSE	5
2	2	"wrong address"	FALSE	5
3	3	"it sucks"	TRUE	1