

CR Review

Software Architectural Design

Submitted to:
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Unique Reference:

The documents are stored in the <https://github.com/HappyMonkee/CR-Review/tree/master/03-Design%20Engineering> referenced with <https://github.com/HappyMonkee/CR-Review/blob/master/03-Design%20Engineering/CR%20Review%20-%20Architectural%20Design.pdf>

Purpose:

This document aims to consolidate all classes elaborated in the workshops on User Interface Design, Data Design and Control classes into a single software architecture for the Use Case Specifications assigned to the group.

Audience:

UP Diliman Students;

Prof. Ma. Rowena C. Solamo

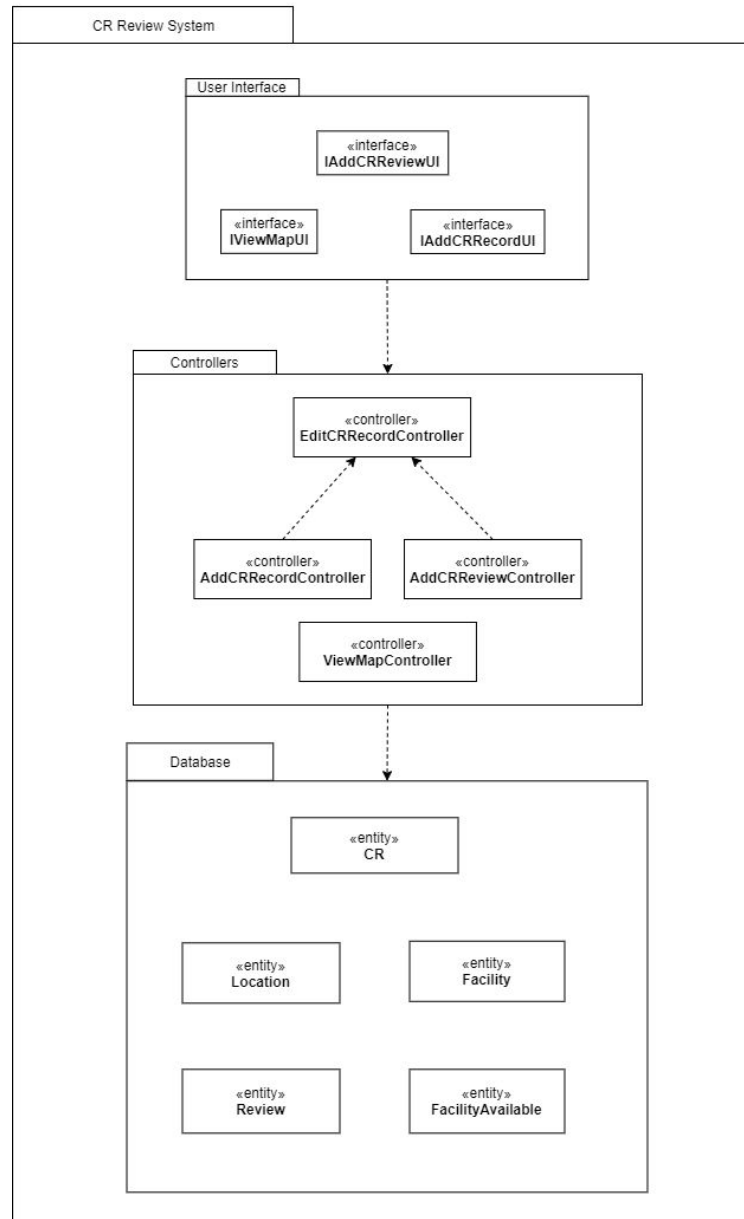
Revision Control:

<i>Revision Date</i>	<i>Person Responsible</i>	<i>Version Number</i>	<i>Contribution/Modification</i>
10/26/19	JV Afable	1.0	Initial Document, Unique Reference, Purpose, Audience, Initial Revised Software Architecture Model
10/29/19	Lance Lim	1.1	Added to Data Sources Package
10/30/19	John Philip Chanchico	1.2	Added to User Interface Package and Controllers Package
10/31/19	Lance Lim	2.0	Added to Controller Package and DAO Package

System Name: CR Review System

Description: The CR Review System is an application that allows people to locate, view, and review CRs within the campus of UP Diliman. Users are given interfaces which allow them to do the aforementioned actions. These actions

Revised Software Architecture Model:



User Interface Package:

Screen Name	Description
ViewMapUI	<p>This is the interface of both the user and the admin to be able to view the map containing the CRs in UP.</p> <p>Responsibilities :</p> <pre>public LoadMap() : return void public InputFilter(String criteria, Facility[] f, Float rating) : return void public FilterMap(String criteria, Facility[] f, Float rating) : return Location[] public SelectLocation(Location l) : return void public SelectGetPath(Location l) : return void public ScrollView() : return void</pre>
AddCRReviewUI	<p>This is the interface that allows a user to add a review to a CR.</p> <p>Responsibilities:</p> <pre>public EnterReview(String CRid, int rating1, int rating2, int rating3, String reviewtext) : return void</pre>
AddCRRecordUI	<p>This is the interface that allows a user to add a new CR Record to the system.</p> <p>Responsibilities:</p> <pre>public EditCRRecord(String CRid, Location address,char gender, int floor, Facility[] f) : return void</pre>

Controllers Package:

Controller Name	Description
EditCRRRecordController	This is the control that allows adding and editing data of a CR Record. Responsibilities: public EditCRRRecord(String CRid, Location address,char gender, int floor, Facility[] f) : return void
AddCRRRecordController	This is the control that adds a CR Record to the system. It extends EditCRRRecordController. Responsibilities: public AddCRRRecord(Location address, char gender, int floor, Facility[] f) : return void
AddCRReviewController	This is the control that adds a Review to a CR. It extends EditCRRRecordController. Responsibilities: public AddCRReview(String CRid, int rating1, int rating2, int rating3, String reviewtext): return void public CancelAddReview() : return void
ViewMapController	This is the control that gets all the locations of all the CRs in the database to be shown in the map. Responsibilities: public GetLocations() : return Location[] public GetLocations(String criteria, Facility[] f, Float rating) : return Location[] public ShortestPath(Location l, Location cur) : return Location[]

Data Access Objects Packages:

DAO Name	Description
CR	<p>This is the entity class CR, which contains the data about the CR Record, as well as all functions associated with the CR record.</p> <p>Attributes:</p> <p>CRid : public int</p> <p>LocationID : private int</p> <p>floor : private string</p> <p>gender : private char</p> <p>Functions:</p> <p>public AddCRRecord(Location address, char gender, string floor) : return bool</p> <p>public AddCRReview(String CRid, int criteria1_rating, int criteria2_rating, int criteria3_rating, String reviewtext) : return void</p> <p>public DeleteCRRecord(Location l, String CRid) : return void</p> <p>public DeleteCRReview(String CRid, String ReviewID) : return void</p> <p>public GetCRs(Location l) : return CR[]</p>
Location	<p>This is the entity class Location, which contains the data about the locations of the CRs.</p> <p>Attributes:</p> <p>LocationID : public int</p> <p>address : private string</p> <p>xCoordinate : private float</p> <p>yCoordinate : private float</p> <p>Functions:</p> <p>public GetLocations() : return Location[]</p> <p>public GetLocations(String criteria, Facility[] f, Float rating) : return Location[]</p> <p>public ShortestPath(Location l, Location cur) : return Location[]</p> <p>public AddLocation(string address, int x, int y) : return bool</p>
Review	<p>This is the entity class Review, which contains the data about the reviews of each CR Record.</p> <p>Attributes:</p> <p>ReviewID : public int</p> <p>CRid : private int</p> <p>rating1 : private int</p> <p>rating2 : private int</p> <p>rating3 : private int</p> <p>reviewText : private string</p> <p>Functions:</p>

	<pre> public overall_rating(int criteria1_rating, int criteria2_rating, int criteria3_rating) : return Float public AddCRReview(String CRid, int criteria1_rating, int criteria2_rating, int criteria3_rating, String reviewtext) : return void public DeleteCRReview(String CRid, String ReviewID) : return void </pre>
Facility	<p>This is the entity class Facility, which contains the data about the facilities of every CR record.</p> <p>Attributes:</p> <p>Fid : public int</p> <p>facilityName : private string</p> <p>Functions:</p> <p>public AddFacility(string newFacility) : return void</p>
FacilityAvailable	<p>This is the entity class FacilityAvailable, which represents the relationship between CR Records and their respective available facilities.</p> <p>Attributes:</p> <p>CRid : public int</p> <p>Fid : public int</p> <p>Functions:</p> <p>public AddFacilitytoCR(int cr, int facility) : return void</p>

Data Sources Package:

File Name or Database Name	Description
CRReviewDatabase	This is the database that contains all the data required for the CR Review Application. For more details, see the Data Design document.