

SOEN 344 - Corrective Maintenance: Change Log		TEAM 3 - SOEN 344	
Date	GitHub   Item	Problem(s)	Solution
2017/02/11	#6 Communication Diagram Initiate Reservation Session	Inconsistent type signature for many operations	Corrected in SAD by reverse engineering
2017/02/11	#6 Communication Diagram Create Reservation	The communication diagram is inconsistent with the code. Example: RoomMapper is never used in the ReservationController.createReservation()	Reversed engineered from the code for consistency in the SAD
2017/02/11	#6 Communication Diagram Modify Reservation	- Inconsistent method names - Missing interaction in the SAD	Reversed engineered from the code for consistency in the SAD
2017/02/11	#1 Individual Use Cases	-Improper flow	Corrected the main flow by following different scenarios on the website
2017/02/11	#3 For critical use cases: state diagram	no exit for the following state diagrams: -make reservation -modify reservation -remove reservation	Corrected the flow for state diagram and added the exit.
2017/02/11	#6 Communication Diagram Cancel Reservation	- Inconsistent method names - Missing interaction in the SAD	Reversed engineered from the code for consistency in the SAD
2017/02/11	- Diagrams	- Uses tools that do not support live-editing with other team members to collaborate. - License required if free trial ends.	Migrated to LucidChart
2017/02/11	#6 Communication Diagram End Reservation Session	- Inconsistent method names - Inconsistent type signature for methods	Updated the SAD to be consistent with the code
2017/02/11	- Code	Missing comments make the understandability of the code difficult	Added comments to the code to increase understandability and thus maintenance
2017/02/11	#6 Communication Diagram View Reservations	- Unclear whether the diagram is for one room or all rooms - Inconsistent method names and signature type between SAD and code	Reversed engineered from the code for consistency in the SAD
2017/02/11	#5 Class Diagram	- Inconsistency between code and class diagram methods - Missing interface and base classes in class diagram - IdentityMap subclasses do not overload methods from superclass - Missing return types and method signatures	Reversed engineered from the code for consistency in the SAD
2017/02/11	#2 System Sequence Diagram Make Reservation and Modify Reservation	- Missing alternative flows	Included a second return message to indicate adding or modifying a reservation has failed
2017/02/11	- RoomMapper and UserMapper code	- There are some code that was and will never be used such as: <pre>public Room set(long id, String description) {     return null; }</pre>	Removed the code in both mapper classes
2017/02/11	#15 Unit of Work and Mappers code	- Multiple unit of work objects are created for the same mapper. - Unit of work does not clear its registered objects list after updating the database	- Moved the unit of work object from a local variable into an attribute per mapper.
2017/02/13	- Software Architecture Document	Document does not contain any testing report.	Created a Unit Testing and System Testing report in the SAD
2017/02/13	- ReservationController Code	Code contains logic code and algorithms that should not be part of a controller class as controllers don't have that responsibility.	Created a ReservationLogic class whose sole responsibility is to provide the logic for the ReservationController class.
2017/02/17	#16 Reservation Mapper	The ReservationMapper potentially creates duplicate reservation objects.	Corrected the code so that the method seeks for the object in the identity map before looking in the TDG. Note: Since the identity maps have been moved to an aspect architecture, this change may not appear as of the current code. However, issue #16 still shows the corrected code during the corrective maintenance phase.
2017/02/18	#17 Reservations/Database to object conversion	The date format in the reservation table is stored with a ".0" which cannot be converted to a DateTime object required to instantiate a reservation object. Exceptions are thrown when trying to cancelling a reservation, accessing a user profile when the reservation is absent from identity map, or consulting a room view when reservations are absent from the identity map.	Updated the type of the field containing the start and end time of a reservation to be a datetime instead of a varchar, restricting the jdbc used in the TDG to input a correct format of datetime.
2017/02/19	- Identity Map classes	QueueNodeEdge/Room/UserIdentityMap classes were empty, which is a code smell.	Refactored the code by removing QueueNodeEdge, Room and User identity maps and replace existing calls to these classes to the identity map supertype
2017/03/11	- ReservationController Code	removeFromQueue(long reservationId) method in ReservationController class contains repeating code and many nested if loops.	Refactored the code to separate into methods for improved readability and to avoid code duplication.
2017/04/02	ReservationController code	There was a lot of logic in the reservation controller which violates the single responsibility principle and makes it hard to unit test	Refactored logic into separate classes