Appendices B

Class Diagram

Class Description

Server classes:

* AccountImpl – This class represents an account for ‘MSc Properties’ and implements Account from the common package.
* AddressImpl – This class represents an address for a property and implements Address from the common package.
* AddressUsageImpl – This class represents an actual usage of an address by a person and implements AddressUsage from the common package.
* AgreementImpl – This class represents an agreement for ‘MSc Properties’ between an office and a client and implements Agreement from the common package.
* ApplicationImpl – This class represents an application to ‘MSc Properties’ for private rented accommodation and implements Application from the common package.
* ContactImpl – This class represents a contact for a person or an office and implements Contact from the common package.
* ContractImpl – This class represents a contract between ‘MSc Properties’ and an employee, and extends AgreementImpl from the server package and implements Contract from the common package.
* Database – This class represents the application database that will hold all of the system data and although this cycle did not include the object relational mapping functionality, during a later cycle it will manage the connection to the MySQL database and deal with queries to the MySQL database to create, update and delete data within the database.
* ElementImpl – This class represents a system element, such as a religion or title for a person and implements Element from the common package.
* EmployeeImpl – This class represents an employee of ‘MSc Properties and implements Employee from the common package.
* EmployeeAccountImpl – This class represents an account for an employee contract set up by an ‘MSc Properties’ office and extends AccountImpl from the server package and implements EmployeeAccount from the common package.
* InvolvedPartyImpl – This class represents a household member of an application for private rented accommodation and implements InvolvedParty from the common package.
* JobRoleImpl – This class represents a job role for an employee of ‘MSc Properties’ and implements JobRole from the common package.
* JobRoleBenefitImpl – This class represents a benefit for the associated job role of ‘MSc Properties’ and implements JobRoleBenefit from the common package.
* LandlordImpl – This class represents a landlord of a property ‘MSc Properties’ manage, and implements Landlord from the common package.
* LeaseImpl – This class represents a lease between ‘MSc Properties’ and a landlord, and extends AgreementImpl from the server package and implements Lease from the common package.
* LeaseAccountImpl – This class represents an account for a landlord lease set up by an ‘MSc Properties’ office and extends AccountImpl from the server package and implements LeaseAccount from the common package.
* ModifiedByImpl – This class represents a modification to a system object, such as an update to a property, and implements ModifiedBy from the common package.
* NoteImpl – This class represents a note for a system object, and implements Note from the common package.
* OfficeImpl – This class represents an office of ‘MSc Properties’ and holds the Agreements and Accounts associated with the office, and implements Office from the common package.
* PersonImpl – This class represents a person within the ‘MSc Properties’ system, and can be associated with an employee, landlord or involved party and implements Person from the common package.
* PropertyImpl – This class represents a property that ‘MSc Properties’ did or does manage and implements Property from the common package.
* PropertyElementImpl – This class represents an element of a property, for example rent or number of bedrooms and implements PropertyElement from the common package.
* RentAccountImpl - This class represents an account for an application tenancy set up by an ‘MSc Properties’ office and extends AccountImpl from the server package and implements RentAccount from the common package.
* TenancyImpl - This class represents a tenancy between ‘MSc Properties’ and an involved party of an application, and extends AgreementImpl from the server package and implements Lease from the common package.
* TransactionImpl – This class represents a transaction for an account of ‘MSc Properties’, and implements Transaction from the common package.
* ServerImpl – This class represents the controller class of the model, and although this cycle did not include the networking functionality, during a later cycle it will act as the actual server, and deal with setting up the remote server for clients to connect to.