## Objective

## System setup

### software

## class diagram

### classes:

Route

Vehicle → Bus

BusPass

User

Visitor

Notification

Ticket/Maintenance

Admin

BusHandler

BusPassHandler

RouteHandler

UserHandler

VisitorHandler

NotificationManager

## Project files

### models:

Vehicle - <<interface>> , Bus - <<class>>

BusPass - <<class>>

Notification - <<interface>>, NotificationBuilder - <<interface>> , Notifications - <<class>>

Route - <<class>>

User - <<class>>

Visitor - <<class>>

### controllers:

Admin

BusHandler

BusPassHandler

NotificationHandler

NotifcationManager

BusApplyNotification

BusPassCancelNotification

FeedBack

RouteHandler

UserHandler

VisitorHandler

### Data

ObjectStore

ObjectSaver

ObjectRetriever

### Helper classes (utils):

Password -- encrypt/decrypt

IDGenerator -- unique ID for buspasses

## different approach

driver.java

### assets

AssetFactory

Admin

Bus

BusPass

Route

RouteRequest

User

Visitor

Stops

### managers

BaseManager

BusManager

BusPassManager

FeedbackManager

IdManager

RouteManager

RouteRequestManager

SeatManager

StopManager

UserManager

### operations

OperationFactory

AdminOperations

AdminLoginOperation

UserLogin

AppDriver

UserOperation

UserLoginOperation

VisitorOperation

### dbTools

ConnectionManager

QueryExecutor

Validator

### customExceptions

ApplicationException

UserException

xxxException