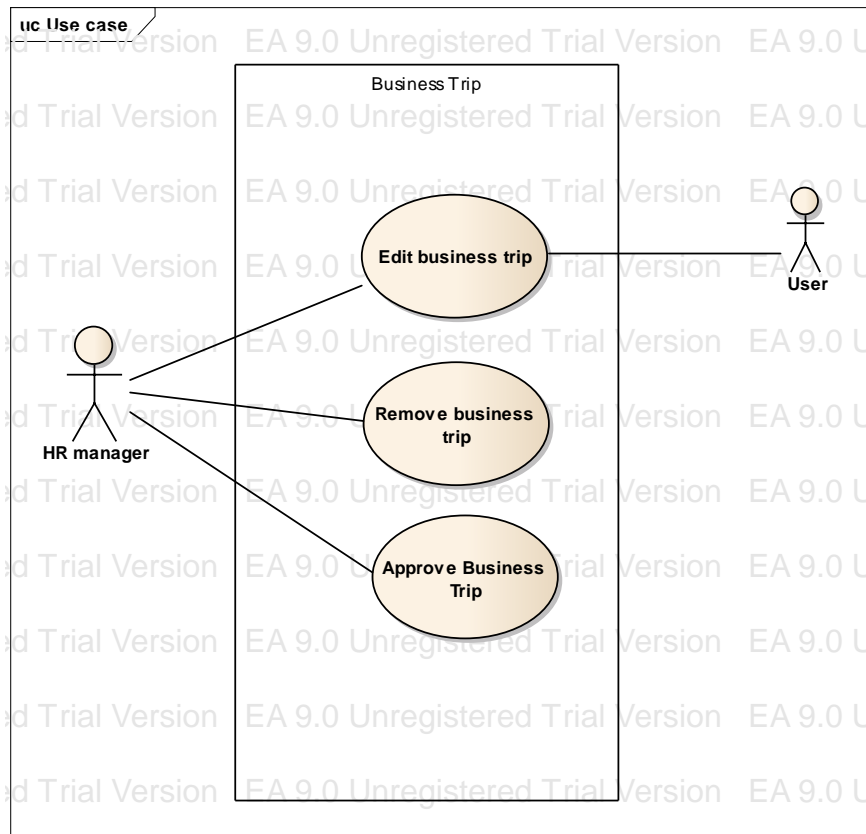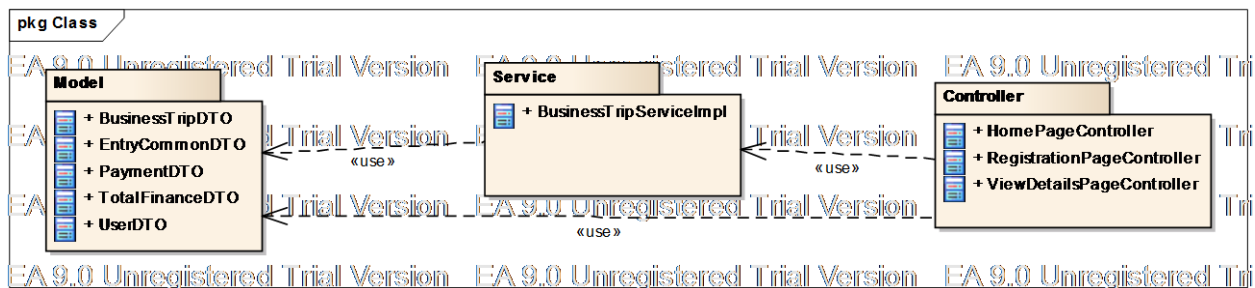# Business Trip Application
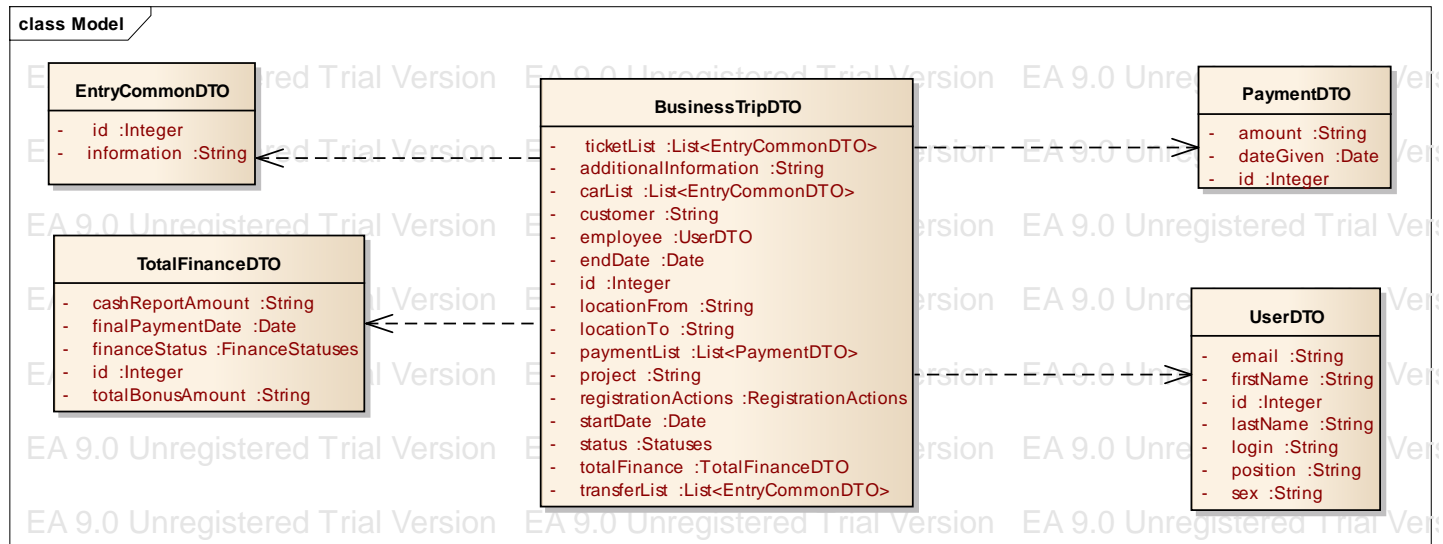
1. Use-case model:
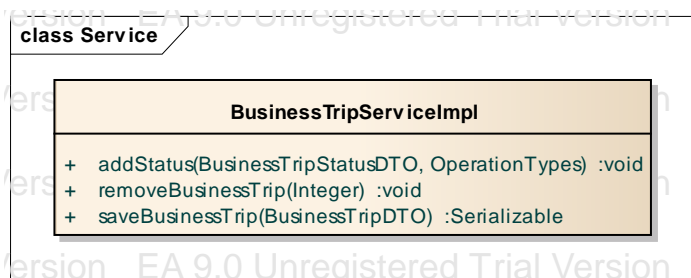

2. Class model

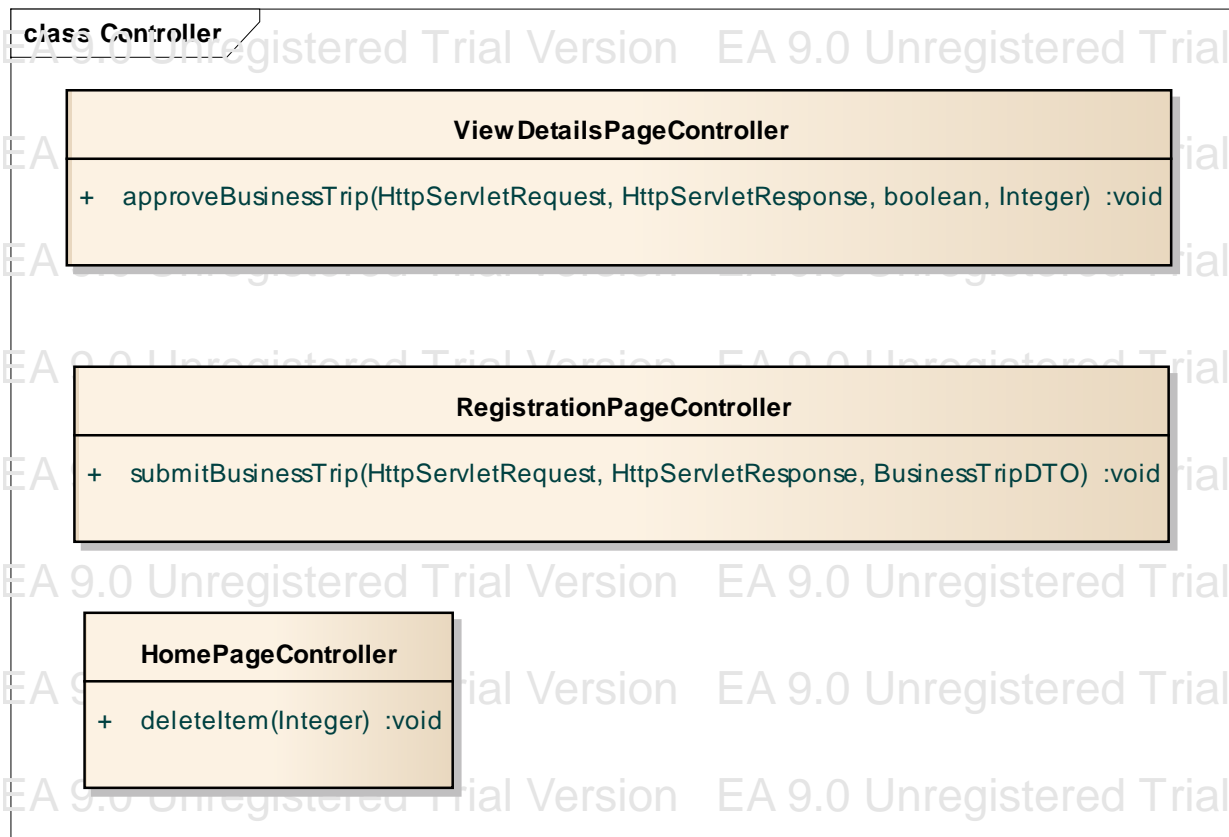## a) Model:

class Model
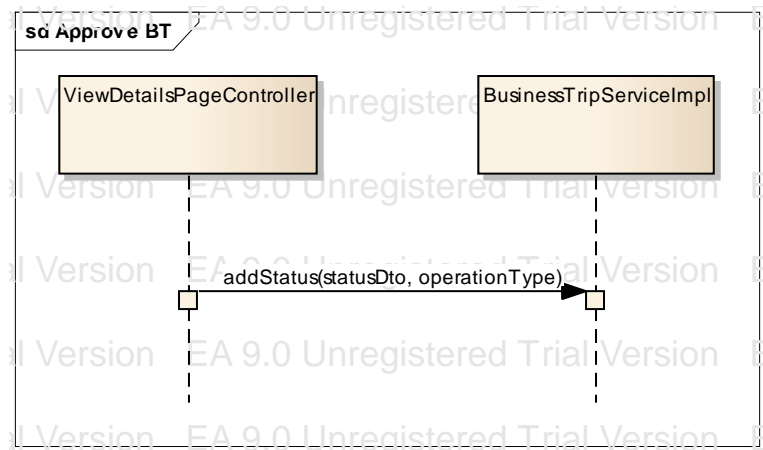
EntryCommonDTO
- id :Integer
- information :String

TotalFinanceDTO
- cashReportAmount :String
- finalPaymentDate :Date
- financeStatus :FinanceStatuses
- id :Integer
- totalBonusAmount :String

BusinessTripDTO
- ticketList :List<EntryCommonDTO>
- additionalInformation :String
- carList :List<EntryCommonDTO>
- customer :String
- employee :UserDTO
- endDate :Date
- id :Integer
- locationFrom :String
- locationTo :String
- paymentList :List<PaymentDTO>
- project :String
- registrationActions :RegistrationActions
- startDate :Date
- status :Statuses
- totalFinance :TotalFinanceDTO
- transferList :List<EntryCommonDTO>

PaymentDTO
- amount :String
- dateGiven :Date
- id :Integer

UserDTO
- email :String
- firstName :String
- id :Integer
- lastName :String
- login :String
- position :String
- sex :String

b) Service:

class Service

BusinessTripServiceImpl
+ addStatus(BusinessTripStatusDTO, OperationTypes) :void
+ removeBusinessTrip(Integer) :void
+ saveBusinessTrip(BusinessTripDTO) :Serializable

c) Controller:

class Controller

ViewDetailsPageController
+ approveBusinessTrip(HttpServletRequest, HttpServletResponse, boolean, Integer) :void

RegistrationPageController
+ submitBusinessTrip(HttpServletRequest, HttpServletResponse, BusinessTripDTO) :void

HomePageController
+ deleteItem(Integer) :void

3. Sequence

a. Approve BT

sd Approve BT

ViewDetailsPageController → BusinessTripServiceImpl

addStatus(statusDto, operationType)

b. Remove BT

sd Remove BT

HomePageController → BusinessTripServiceImpl

removeBusinessTrip(id)

c. Edit BT

sd Edit BT

RegistrationPageController → BusinessTripServiceImpl

saveBusinessTrip(businessTripDto)