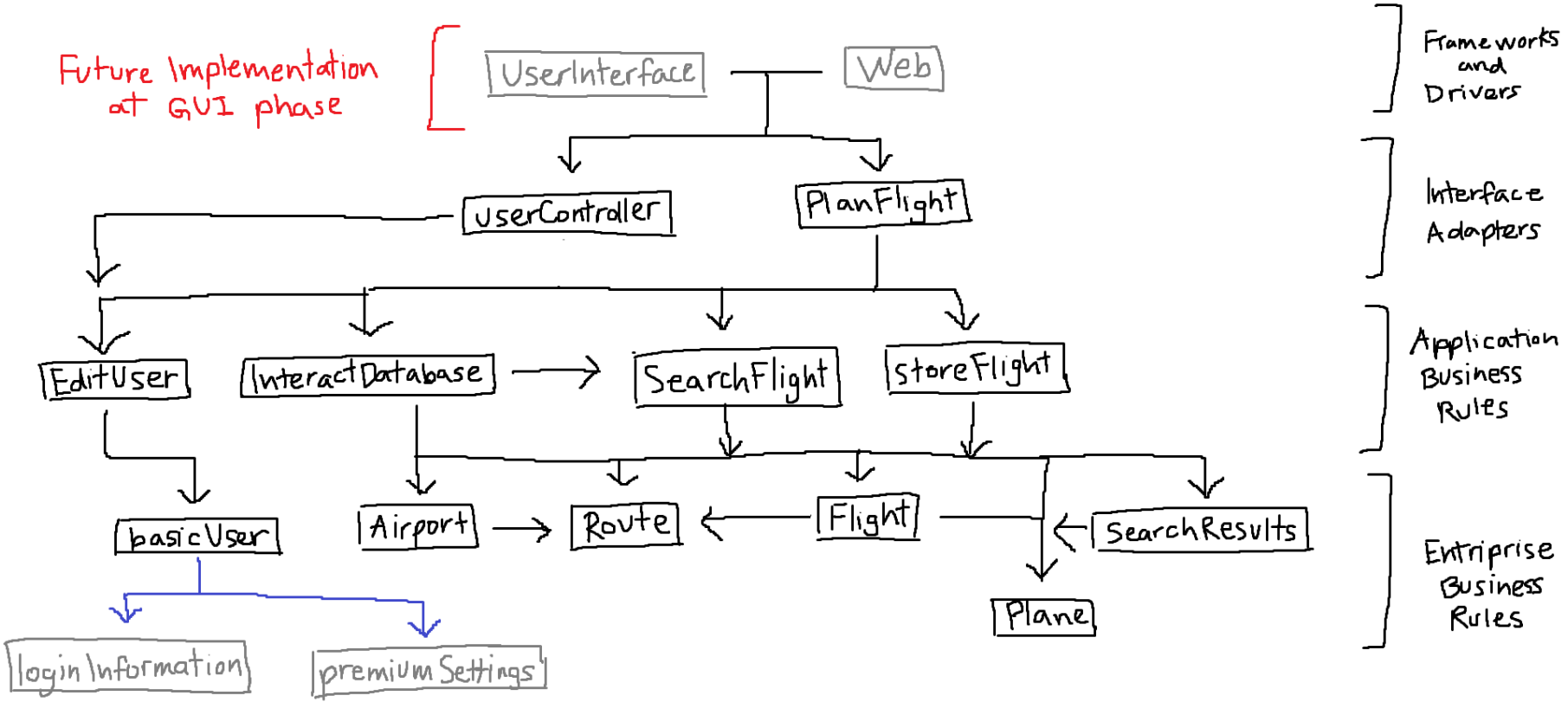

Future Implementation at GUI phase
UserInterface
Web
UserController
PlanFlight
EditUser
InteractDatabase
SearchFlight
StoreFlight
basicUser
Airport
Route
Flight
SearchResults
Plane
loginInformation
premiumSettings
Frameworks and Drivers
Interface Adapters
Application Business Rules
Entriprise Business Rules

Colour Coded Legend:

Red – entities
Blue – usecases
Green – controllers
Black – misc.

relevant CRC cards for skeleton walkthrough provided below

basicUser

Parent

Child

- getID
- getUsername
- getPassword
- loginDetails (hashmap for setters)

- getEmail
- setEmail
- getPhoneNumber
- setPhoneNumber

- setTypeOfClass (economy/business/first etc.)
- getTypeOfClass
- (economy/business/first etc.)

Note: boolean required to access remaining methods

- renewMembership
- rateApp
- favouriteFlights
- favouriteAirports
- setColorScheme
- adjustAutoLogout
- setHome

- changeSettings

Collaborators

EditUser
interactDatabase
LoginInformation
PremiumSettings

Flight

- date
- plane
- duration
- source
- destination

- getDate
- getPlane
- getDuration
- getSource
- getDestination

Collaborators
Plane
Route

Plane

● brandName ● seatCount ● firstClassSeats ● economySeats ● HasVacantSeats ● getBrandName ● getSeatCount ● getFirstClassSeats ● getHasVacantSeats	Collaborators

Airport

Parent

Children

- city
- iataCode
- getRoutes <-- i think this should be a list of flights instead
  Route objects refer to
- setRoutes

Collaborators
Route

Route

● departureAirport ● destinationAirport ● flights ● getDestinationAirport ● GetDepartureAirport ● setDestinationAirport ● setDepartureAirport ● getPriceofFlights ● getTotalDuration	Collaborators Flight Airport

SearchResults

Parent

Children

- *// Store search queries returned by backend*

- getDestination
- GetDeparture

- SortFlightsByPrice
- sortFlightsByDuration

Collaborators
Flight
Route

EditUser

loginInformation

● ID ● email ● phoneNumber ● classType ● upragded ● renewalDate ● appRating ● setID ● setEmail ● setPhoneNumber	● getID	Collaborators BasicUser

InteractDatabase

Parent

Children

- getFlightData --> retrieve flight info from API
- getAirportData --> retrieve airport info from API
- getHistory --> retrieve flight history data from backend
- postData --> submit data to be stored in the backend

Collaborators
Route
Plane
SearchResults
Flight
Airport

StoreFlight

Parent

Children

- GiveRelevantInformation

Collaborators
Plane
Flight
PlanFlight
InteractDatabase
 - stores instance of user

PlanFlight

Parent

Children

- EnterSearchRequirements
- date, departureLocation, destinationLocation
- SelectFlight

User
SearchQueries
StoreFlight
InteractDatabase

userController

Parent

Child

- createAccount
- login

Collaborators

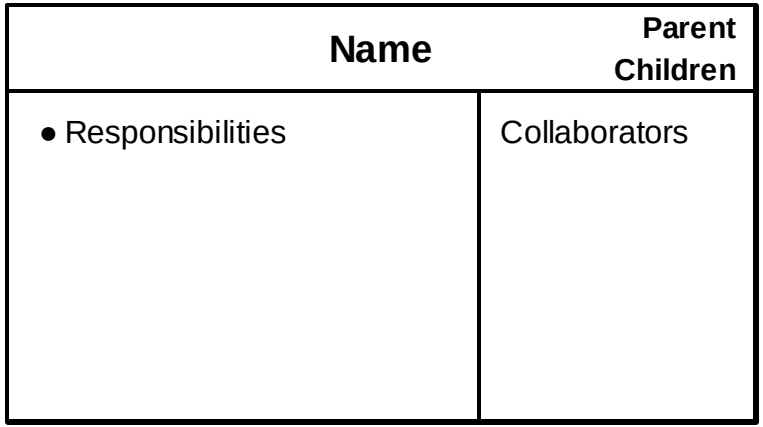
EditUser
interactDatabase

loginInformation

- info

- getUsername
- getPassword

- setUsername
- setPassword

CRC card template

Copy, paste, and edit the template as needed to create your own CRC cards.