

ASD by prof. Hanhong Lu

Booking System

Group 3:

Enkh Erdenebat

Kimtey Chav

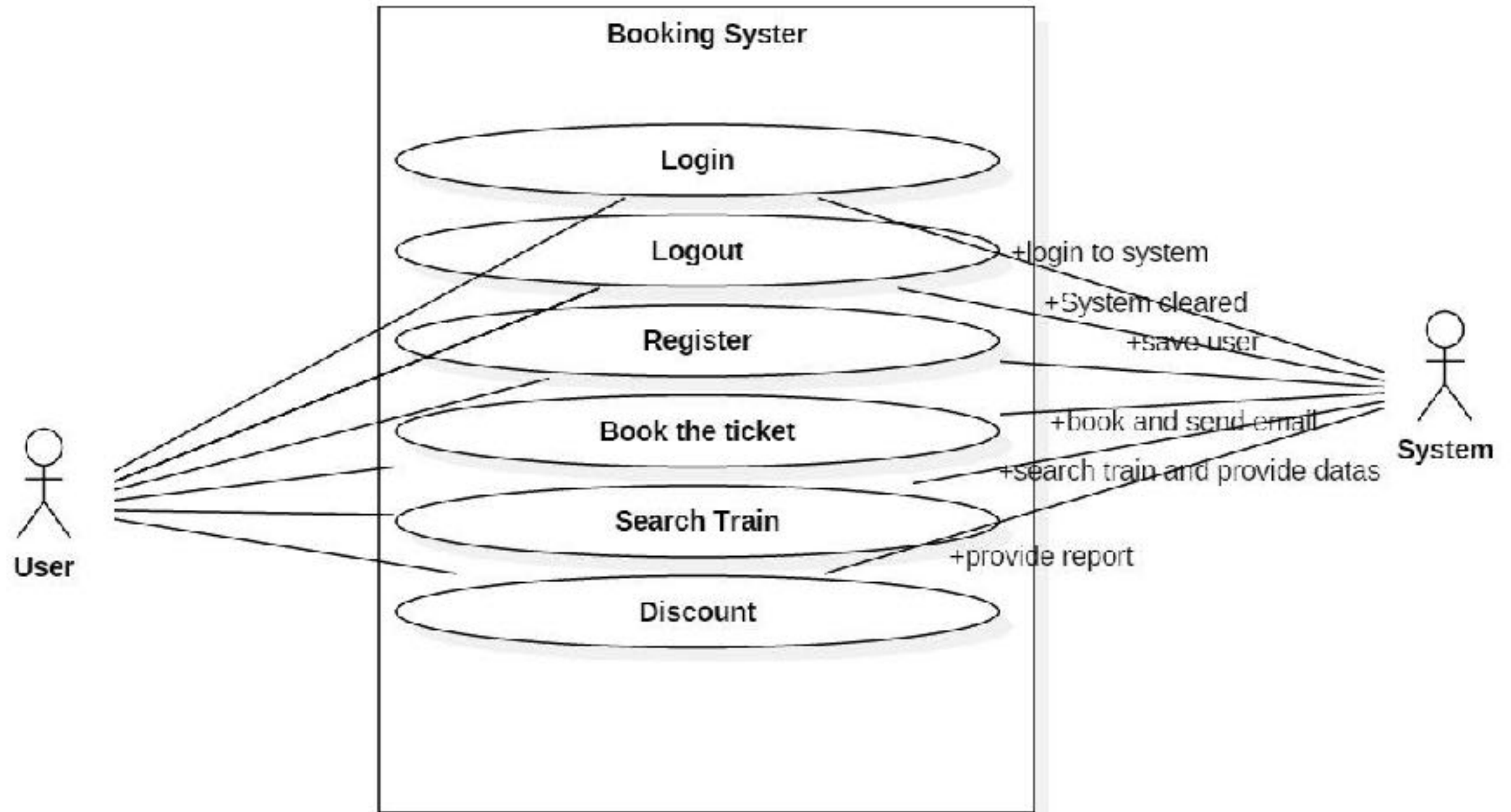
Van Gia Luat Nguyen

Booking System

Requirements:

- Register their information to the system.
- Log in to the system.
- Book the train from one place to another (one way / round trip).
- Modified booking.
- Alert by sending email to client after the booking is confirmed.
- Searching the schedule of the train.
- Provide promotion to client.
- Provide reports.
- Allow other application to implement the booking framework (bus / plane / car...)





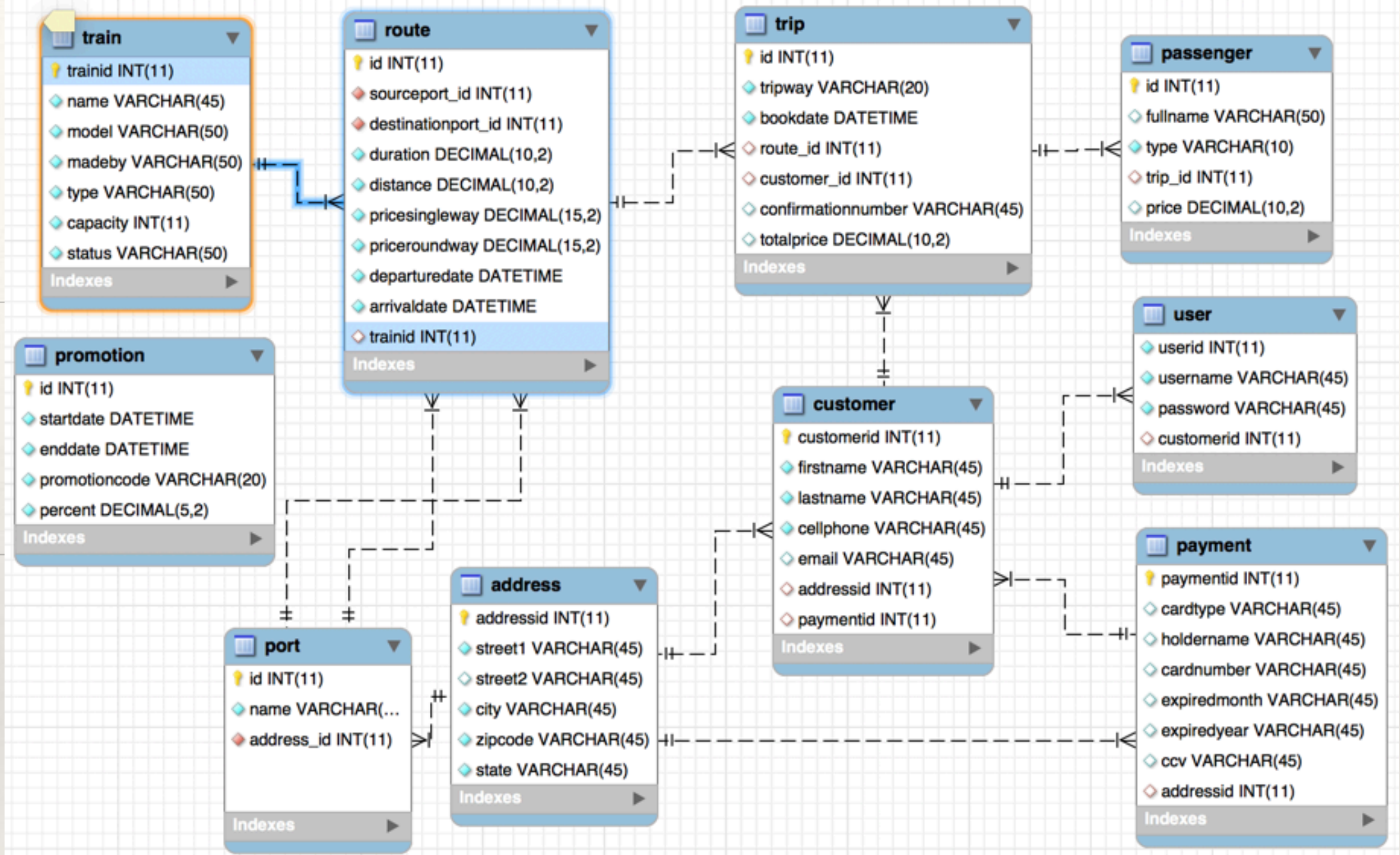
Booking System

Use Cases:

Design Patterns:

- Abstract Factory: DAO layer
- Flyweight: ConnectionPool
- Visitor: getPrice of ticket
- Facade, Iterator: Promotion Code
- Builder: Report
- Prototype:
- Singleton, Template Method, Strategy: Email.
- Observer: involve sending an email when never action happy.
- Proxy: Report.





Booking System

ERD:

Booking System

Technologies

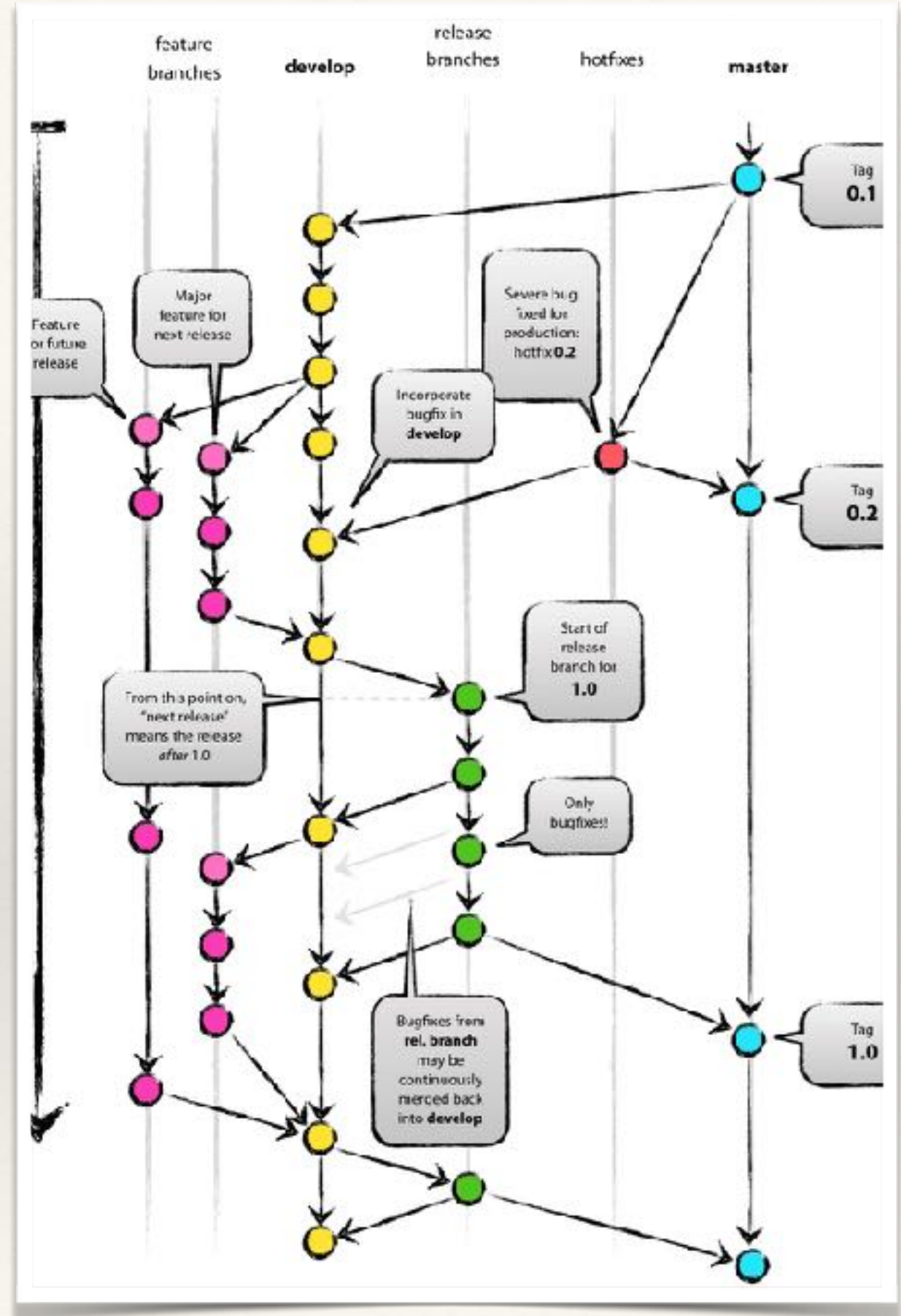
- Ajax
- HTML5/CSS
- JSP/Servlet
- Java
- My Sql
- Eclipse



Booking System

GIT Hub

- 1 master branches for App
- 1 other branches for Framework



Booking System

Done

- Register their information to the system.
- Log in to the system.
- Book the train from one place to another (one way / round trip).
- Alert by sending email to client after the booking is confirmed.
- Searching the schedule of the train.
- Provide promotion to client.
- Provide reports.
- Allow other application to use the framework (such as bus / plane / car...)



Booking System

Ratio

1. Application java source code - 18% of total source code : 1327 lines of code
2. Application JSP source code - 8% of total source code: 625 lines of code.
3. Framework java source code - 72% of total source code: 5124 line of code



Booking System

Remaining

- Modifying a booking
- Optimization
- Cloud deployment



Booking System

Future Features

- Apply more abstract classes for extension flexibility.
- Joining LDAP
- It can use with multiple user



© Can Stock Photo

See Where the Train Can Take You

User: LUAT NGUYEN

[Log out](#)

Book Tickets:

Trip	From	To	Depart	Return	Traveler
One Way ▾	Burlington, IA - BRL ▾	Creston, IA - CRN ▾	02/03/2018	02/03/2018	4

[Home](#)

[Find Routes](#)

List Of Available Trains:

No	Train	Class	From	To	Depart Time	Arrival Time	Price One Way / Roud Trip	Selection
1	Train 01	ECONOMY	Burlington, IA - BRL	Creston, IA - CRN	12:00:00	18:30:00	31/62	<input type="radio"/>
2	Train 02	ECONOMY	Burlington, IA - BRL	Creston, IA - CRN	13:00:00	19:30:00	31/62	<input type="radio"/>
3	Train 03	ECONOMY	Burlington, IA - BRL	Creston, IA - CRN	14:00:00	20:30:00	31/62	<input type="radio"/>
4	Train 04	REGULAR	Burlington, IA - BRL	Creston, IA - CRN	15:00:00	21:30:00	34/68	<input type="radio"/>

[Continue](#)

Booking System

Demo

Thanks prof. Hanhong Lu

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Passenger List

Passenger Information:

No	Full Name	Passenger Type
1	<input type="text" value="Luat Nguyen"/>	<input type="text" value="Adult"/>
2	<input type="text" value="Jenny Nguyen"/>	<input type="text" value="Child"/>

Promotion Code:

[Home](#)

[Checkout](#)

Booking System

Demo

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Ordering Tickets Confirmation

Train Information:

Train	Departure Port	Arrival Port	Duration	Departure Time	Arrival Time
Train 04	Burlington, IA - BRL	Creston, IA - CRN	10.0	2018-02-03 15:00:00	2018-02-03 21:30:00

Passenger Information:

No	Passenger Name	Passenger Type	Price
1	Luat Nguyen	Adult	34.0
2	Jenny Nguyen	Child	17.0
			Sum Price: 51.0
			Discounted: 5.1000000000000005
			Final Price: 45.9

[Home](#)[Place Order](#)

Booking System

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TM Checking System

Q&A

