

Long Travel Bus Reservation



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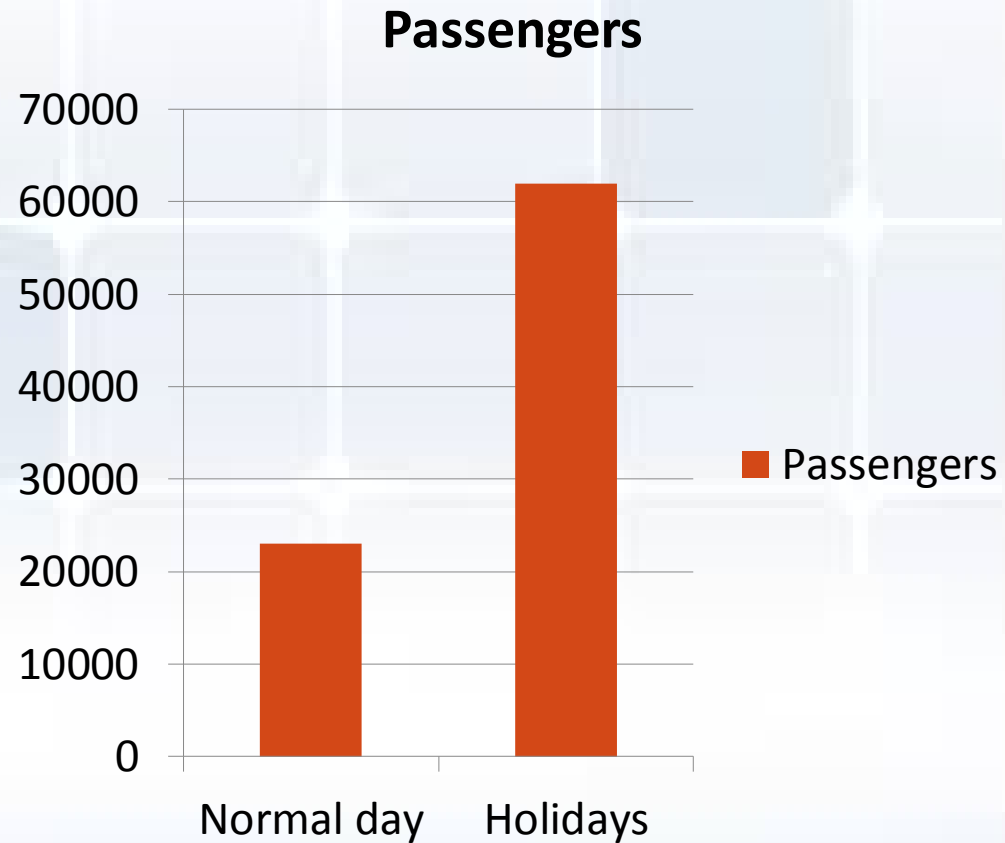
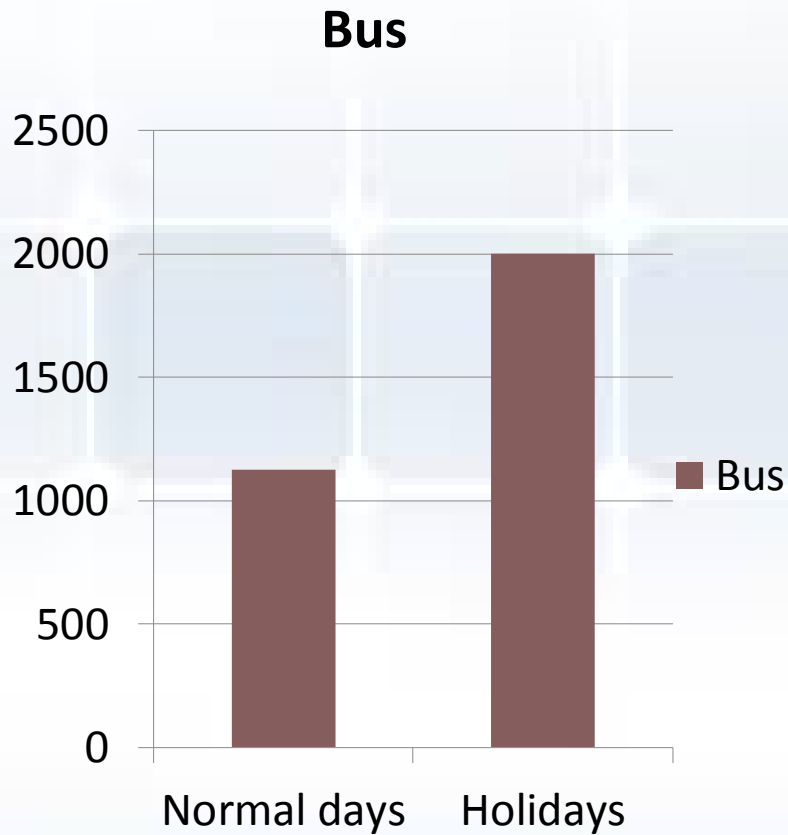


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Problem



Average number of departures in a day in Mien Dong Bus Station ()*



Problem

OVERLOADED!

Staff

Managing

Scheduling

Selling tickets

Customer



Waiting for hours to buy tickets



Solution



Long Travel Bus Reservation



Managing bus

Managing route

Managing fares

Scheduling



Booking tickets

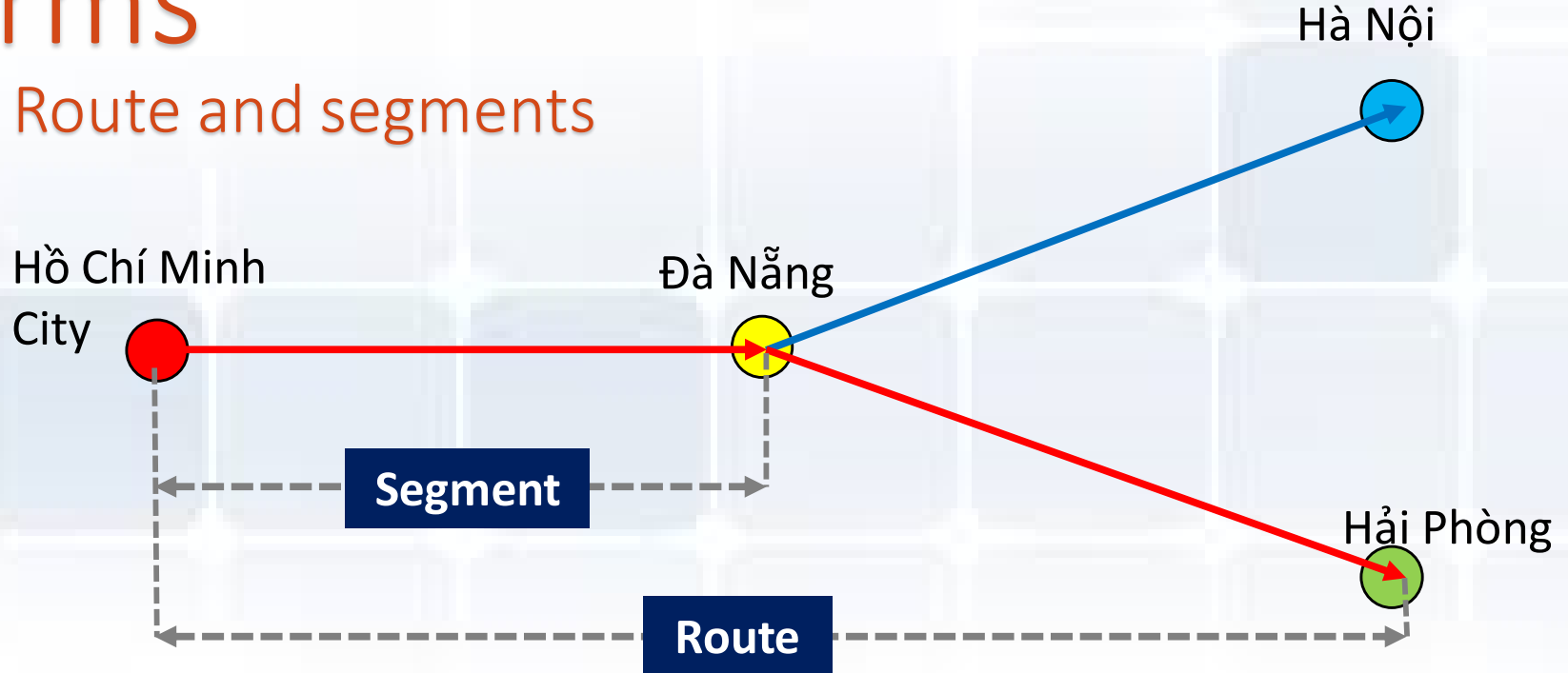
Online payments

**Consult transaction
history**



Terms

Route and segments



Route: Hồ Chí Minh City – Hải Phòng contains 2 segments:

- Hồ Chí Minh City – Đà Nẵng,
- Đà Nẵng – Hải Phòng

Route: Hồ Chí Minh City – Hà Nội contains 2 segments:

- Hồ Chí Minh City – Đà Nẵng,
- Đà Nẵng – Hà Nội



Terms

Tariff

Hồ Chí Minh
City



200,000 VNĐ

Đà Nẵng



Hải Phòng



Segment	Valid date	Fare
Hồ Chí Minh City – Đà Nẵng	30/04/2013	200,000 VNĐ
Hồ Chí Minh City – Đà Nẵng	01/06/2013	250,000 VNĐ

From 0:00 30/04/2013 – 23:59 31/05/2013: 200,000 VNĐ

From 0:00 01/06/2013 – future: 250,000 VNĐ



Terms

Schedule and trip



Schedule

Bus A is scheduled to run on route Hồ Chí Minh City – Hải Phòng from 10:30 1/5/2013 to 20:30 2/5/2013

Trip

There are 2 trips in the schedule

- Hồ Chí Minh City (10:30 1/5/2013) – Đà Nẵng (3:30 2/5/2013)
- Đà Nẵng (3:30 2/5/2013) – Hải Phòng (20:30 2/5/2013)



Terms

Ticket and journey



Ticket



Customer 1 books for a ticket from Hồ Chí Minh City to Hải Phòng (ticket has 2 trips)

Customer 2 books for a ticket from Đà Nẵng to Hải Phòng (ticket has 1 trip)

Journey

Hồ Chí Minh City – Đà Nẵng – Hải Phòng

Đà Nẵng – Hải Phòng



Terms

Reservation



Reservation



Customer 1 books for a ticket from Hồ Chí Minh City to Hải Phòng.

Reservation of customer 1 has only one ticket

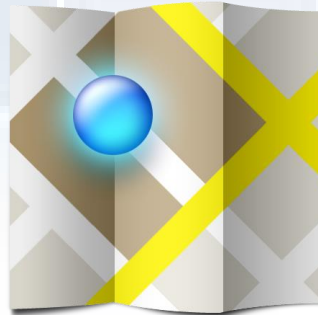
Customer 2 books for round-trip from Hồ Chí Minh City to Hải Phòng and Hải Phòng return to Hồ Chí Minh City. Reservation of customer 2 has two tickets.



Main functions



Managing bus



Managing route

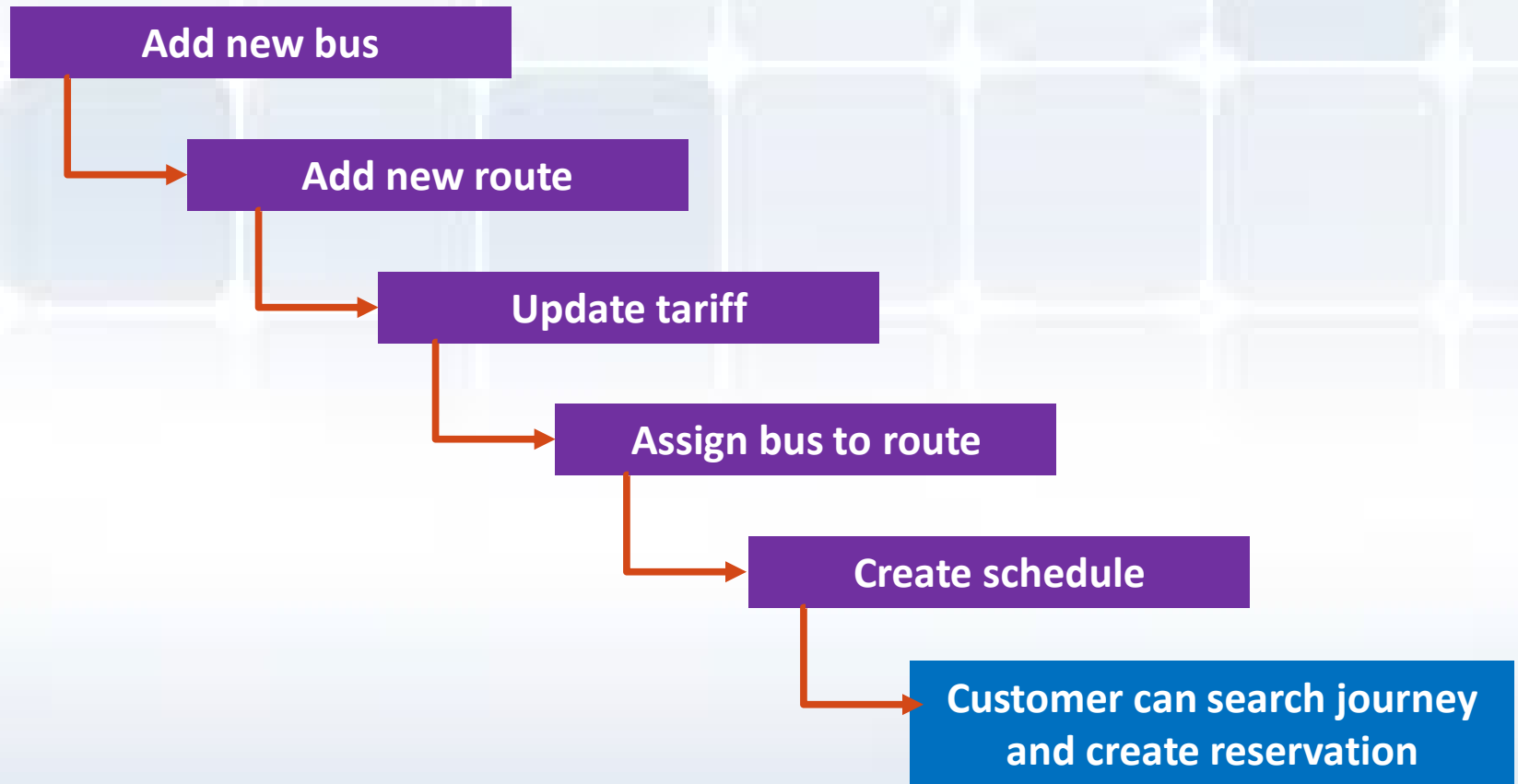
Managing fare



Scheduling



Main functions



Main functions



Booking



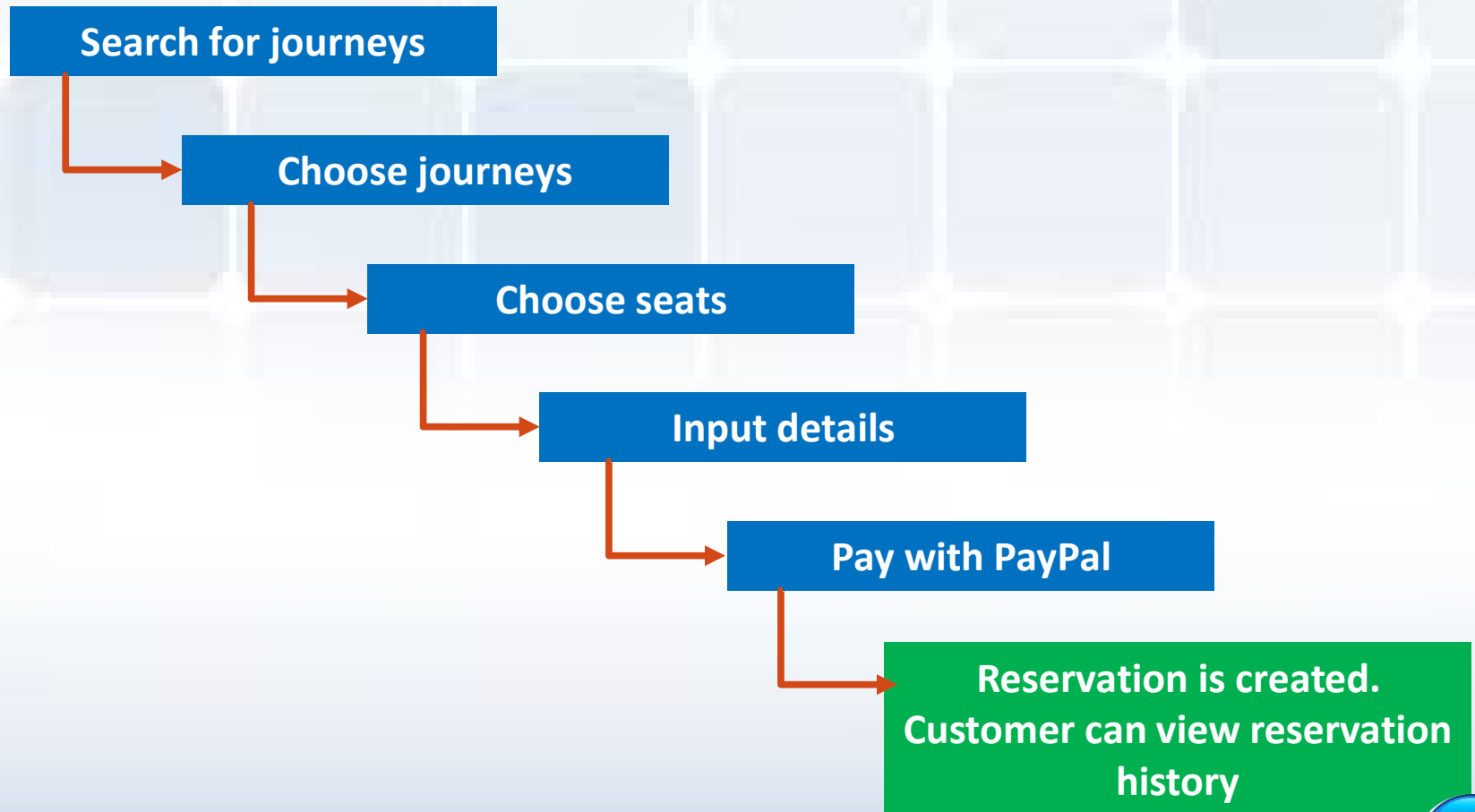
Online payment



Reservation history



Main functions



Tools



eclipse

Eclipse Indigo



Tomcat 6.0.26



MySql Server 5.5

Google code

Google Code



Tortoise SVN



Techniques



Struts²



HIBERNATE

spring

Apache
Log4j

PayPal



Demo



Summary

Achievement

- Customer can book for tickets easily and choose the seats they want.
- Manage, scheduling for bus.
- Payment with PayPal.

Limitation

- Staff have to schedule for each journey.
- Support only one online payment method.
- User cannot change tickets or change seats in past reservation



Summary

Future Plan

- Auto-schedule for each route, bus in a fixed time.
- Integrate more online payment methods (Bảo Kim, Ngân Lượng)
- Support user to change tickets or seats.
- Improve system performance.
- Improve system as user friendly as possible.



Q&A

Thanks for your listening

