



# Service Guide and API Reference

water423 edited this page on Aug 9, 2022 · 17 revisions

## all Services

► Pages 11

### ts-admin-basic-info-service

Summary: This service provides CRUD APIs to manage basic information for administrator, include contacts information, station information, train information, config information and price information.

Main APIs:

URI	Http Method	Description
/adminbasic/contacts	GET	Get all contacts information
/adminbasic/contacts/{contactsId}	DELETE	Delete contacts by Id
/adminbasic/contacts	PUT	Modify contacts information
/adminbasic/contacts	POST	Add contacts

### Getting Started

- [Home](#)
- [Quick Start](#)
- [Installation Guide](#)
  - [docker-compose](#)
  - [k8s](#)
  - [k8s+istio](#)
- [Tag&Push Images](#)
- [User Guide](#)
  - [Visit in browser](#)
  - [How to buy ticket](#)
  - [How to administer](#)
  - [How to access swagger-ui](#)
- [Service-Guide&API-Reference](#)
- [Monitoring Mechanism](#)
  - [EFK](#)
  - [Zipkin](#)
  - [Jaeger](#)
  - [Prometheus](#)

URI	Http Method	Description
/adminbasic/stations	GET	Get all stations information
/adminbasic/stations/{id}	DELETE	Delete stations by Id
/adminbasic/stations	PUT	Modify stations information
/adminbasic/stations	POST	Add stations
/adminbasic/trains	GET	Get all trains information
/adminbasic/trains/{id}	DELETE	Delete trains by Id
/adminbasic/trains	PUT	Modify trains information
/adminbasic/trains	POST	Add trains
/adminbasic/configs	GET	Get all configs information
/adminbasic/configs/{name}	DELETE	Delete configs by Name
/adminbasic/configs	PUT	Modify configs information
/adminbasic/configs	POST	Add configs
/adminbasic/prices	GET	Get prices information
/adminbasic/prices/{pricesId}	DELETE	Delete prices by Id
/adminbasic/prices	PUT	Modify prices information
/adminbasic/prices	POST	Add stations

Main Invocations:

## Industrial Fault

- [Fault Description](#)

## Communication

- [FAQ](#)
- [Submit an issue](#)
- [Open a pull request](#)

## Information

- [Release Note](#)

## Paper Reference

- [ICSE](#)
- [ASE](#)
- [TSE](#)
- [FSE](#)

## Clone this wiki locally

<https://github.com/FudanSELab/ti>



Service	URI	Method	Description
ts-contacts-service	/api/v1/contactservice/contacts	GET	Get Contacts information
ts-contacts-service	/api/v1/contactservice/contacts/ + contactsId	DELETE	Delete One Contact
ts-contacts-service	/api/v1/contactservice/contacts	PUT	Modify Contacts information
ts-contacts-service	/api/v1/contactservice/contacts/admin	POST	add contacts
ts-station-service	/api/v1/stationservice/stations	GET	get stations information
ts-station-service	/api/v1/stationservice/stations	POST	add station
ts-station-service	/api/v1/stationservice/stations/ + id	DELETE	Delete One Station
ts-station-service	/api/v1/stationservice/stations	PUT	Modify Stations information
ts-train-service	/api/v1/trainservice/trains	GET	get all trains information
ts-train-service	/api/v1/trainservice/trains	POST	add train
ts-train-service	/api/v1/trainservice/trains/ + id	DELETE	Delete one train

Service	URI	Method	Description
ts-train-service	/api/v1/trainservice/trains	PUT	Modify Trains information
ts-config-service	/api/v1/configservice/configs	GET	get config information
ts-config-service	/api/v1/configservice/configs	POST	add config
ts-config-service	/api/v1/configservice/configs / + id	DELETE	Delete one config
ts-config-service	/api/v1/configservice/configs	PUT	Modify Configs information
ts-price-service	/api/v1/priceservice/prices	GET	get price information
ts-price-service	/api/v1/priceservice/prices	POST	add price
ts-price-service	/api/v1/priceservice/prices/ + pricesId	DELETE	Delete one price
ts-price-service	/api/v1/priceservice/prices	PUT	Modify Prices information

## ts-admin-order-service

Summary: This service provide CRUD APIs about order management for administrator.

## Main APIs:

URI	Http Method	Description
/adminorder	GET	Get all orders
/adminorder	POST	Add one order
/adminorder	PUT	Modify and Update Order
/adminorder/{orderId}/{trainNumber}	DELETE	delete one order

Main Invocations: ts-order-service: orders about train which trainNumber start with "G" or "D"

ts-order-other-service: orders about train which trainNumber **NOT** start with "G" or "D"

Service	URI	Method	Description
ts-order-service	/api/v1/orderservice/order	GET	Get G or D order information
ts-order-other-service	/api/v1/orderOtherService/orderOther	GET	Get other order information
ts-order-service	/api/v1/orderservice/order/+orderId	DELETE	delete order's information.
ts-order-other-	/api/v1/orderOtherService/orderOther/" + orderId	DELETE	delete other order's

Service	URI	Method	Description
service			information.
ts-order-service	/api/v1/orderservice/order/admin	PUT	modify order information
ts-order-other-service	/api/v1/orderOtherService/orderOther/admin	PUT	modify other order information
ts-order-service	/api/v1/orderservice/order/admin	POST	add order
ts-order-other-service	/api/v1/orderOtherService/orderOther/admin	POST	add other order

## ts-admin-route-service

Summary: This service provide APIs to manage route. The route entity include distances, stations, start station and end station.

Main APIs:

URI	Http Method	Description
/api/v1/adminrouteservice/adminroute	GET	get all routes' information

URI	Http Method	Description
/api/v1/adminrouteservice/adminroute	POST	add one route
/api/v1/adminrouteservice/adminroute/{routeId}	DELETE	delete one route

Main Invocations:

Service	URI	Method	Description
ts-route-service	/api/v1/routeservice/routes	GET	get all routes' information
ts-route-service	/api/v1/routeservice/routes	POST	create or modify route
ts-route-service	/api/v1/routeservice/routes/+routeId	DELETE	delete one route
ts-station-service	/api/v1/stationservice/stations/idlist	POST	check if stations exist

## ts-admin-travel-service

Summary: This service provide APIs to manage teavel. The travel entity include the type of train, the trip and the start and end time.

Main APIs:

URI	Http Method	Description
/api/v1/admintravelservice/admintravel	GET	get all travel information
/api/v1/admintravelservice/admintravel	POST	add one travel entity
/api/v1/admintravelservice/admintravel	PUT	update one travel's information
/api/v1/admintravelservice/admintravel/{tripId}	DELETE	delete a travel entity

Main Invocations:

Service	URI	Method	Description
ts-travel-service	/api/v1/travelservice/admin_trip	GET	get trip information from ts-travel-service
ts-travel2-service	/api/v1/travel2service/admin_trip	GET	get trip information from ts-travel2-service
ts-travel-service	/api/v1/travelservice/trips	POST	add G or D trip entity
ts-travel2-service	/api/v1/travel2service/trips	POST	Add other trip entity
ts-travel-service	/api/v1/travelservice/trips	PUT	modify G or D trip information



Service	URI	Method	Description
ts-travel2-service	/api/v1/travel2service/trips	PUT	modify other trip information
ts-travel-service	/api/v1/travelservice/trips + tripId	DELETE	delete G or D trip entity
ts-travel2-service	/api/v1/travel2service/trips + tripId	DELETE	delete other trip entity
ts-station-service	/api/v1/stationservice/stations/idlist	POST	check if stations exist
ts-train-service	/api/v1/train-service/trains/byName/ + trainTypeName	GET	get train type by train type name
ts-route-service	/api/v1/routeservice/routes/ + routeId	GET	get route by id

## ts-admin-user-service

Summary: This service provide APIs to manage users, include get user information, add user, modify user information and delete a user.

Main APIs:

URI	Http Method	Description
/api/v1/adminuserservice/users	GET	get all user information

URI	Http Method	Description
/api/v1/adminuserservice/users	PUT	update user information
/api/v1/adminuserservice/users	POST	add one user entity
/api/v1/adminuserservice/users/{userId}	DELETE	delete one user entity

Main Invocations:

Service	URI	Method	Description
ts-user-service	/api/v1/userservice/users	GET	get all user information
ts-user-service	/api/v1/userservice/users	PUT	update user information
ts-user-service	/api/v1/userservice/users	POST	add one user entity
ts-user-service	/api/v1/userservice/users	DELETE	delete one user entity

## ts-assurance-service

Summary: This service provide APIs to manage and buy assurance, include many get APIs to get assurance information by different parameter, delete APIs to cancel assurance order and PATCH API to modify assurance order.

Main APIs:

URI	Http Method	Description
/api/v1/assuranceservice/assurances	GET	get assurance information
/api/v1/assuranceservice/types	GET	get assurance type
/api/v1/assuranceservice/assurances/assuranceid/{assuranceId}	GET	get assurance information by id
/api/v1/assuranceservice/assurances/orderid/{orderId}	GET	get assurance information by order id
/api/v1/assuranceservice/assurances/{assuranceId}/{orderId}/{typeIndex}	<b>PATCH</b>	modify assurance information
/api/v1/assuranceservice/assurances/{typeIndex}/{orderId}	GET	create assurance entity
/api/v1/assuranceservice/assurances/assuranceid/{assuranceId}	GET	find assurance by id

URI	Http Method	Des
/api/v1/assuranceservice/assurance/orderid/{orderId}	GET	find ass by c

Main Invocations: The service CRUD informations via database, no other Invocations.

## ts-auth-service

Summary: This service provide APIs to manage user informations and auth operation.

Main APIs:

URI	Http Method	Description
/api/v1/auth	POST	create user
/api/v1/users/login	POST	login check and dispatch token to user
/api/v1/users	GET	get all user information
/api/v1/users/{userId}	DELETE	delete one user entity

Main Invocations:

Service	URI	Method	Description
ts-verification-code-service	/api/v1/verifycode/verify/ + verifyCode	GET	get verifycode picture

## ts-basic-service

Summary: This service provide APIs to query some basic information: basic travel information and basic station information.

Main APIs:

URI	Http Method	Description
/api/v1/basicservice/basic/travel	POST	query basic travel information
/api/v1/basicservice/basic/{stationName}	GET	query stationId by stationName

Main Invocations:

Service	URI	Method	Description
ts-station-service	/api/v1/stationservice/stations/id/ + stationName	GET	query for stationId

Service	URI	Method	Description
ts-station-service	/api/v1/stationservice/stations/id/ + stationName	GET	check if this station exists
ts-train-service	/api/v1/trainservice/trains/ + trainTypeId	GET	query train type by trainTypeId
ts-route-service	/api/v1/routeservice/routes/ + routeId	GET	get route information by routeId
ts-price-service	/api/v1/priceservice/prices/ + routeId + / + trainType	GET	query price by routeId and trainType

## ts-cancel-service

Summary:

This service provide APIs to calculate refund and cancel ticket.

Main APIs:

URI	Http Method	Description
/api/v1/cancel-service/cancel/refound/{orderId}	GET	calculate refund amount.
/api/v1/cancel-service/cancel/{orderId}/{loginId}	GET	cancel ticket

Main Invocations:

Service	URI	Method	Descr
ts-notification-service	/api/v1/notifyservice/notification/order_cancel_success	POST	send e if canc succes
ts-order-service	/api/v1/orderservice/order	PUT	cancel order
ts-order-other-service	/api/v1/orderOtherService/orderOther	PUT	cancel order
ts-inside-payment-service	/api/v1/inside_pay_service/inside_payment/drawback/ + userId + / + money	GET	drawba money
ts-user-service	/api/v1/userservice/users/id/+orderId	GET	get use accoun
ts-order-service	/api/v1/orderservice/order/+orderId	GET	get ord inform by ord
ts-order-other-service	/api/v1/orderOtherService/orderOther/ + orderId	GET	get oth order inform by ord

## ts-common

Summary: It provides normal utils functions and exceptions, don't provide APIs.

## ts-config-service

Summary:

This service provide APIs to manage configs, include query, create, update and delete.

Main APIs:

URI	Http Method	Description
api/v1/configservice/configs	GET	query config informations
api/v1/configservice/configs	POST	create config entity
api/v1/configservice/configs	PUT	update config informations
api/v1/configservice/configs/{configName}	DELETE	delete config entity
api/v1/configservice/configs/{configName}	GET	query config entity by configName

Main Invocations:

This service CRUD informations via database, no other Invocations.

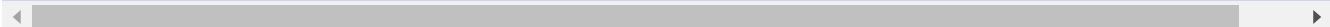


## ts-consign-price-service

Summary: This service provide APIs to calculate consign price and manage consign config.

Main APIs:

URI	Http Method	Descripti
/api/v1/consignpriceservice/consignprice/{weight}/{isWithinRegion}	GET	get confignpri by weight and regior
/api/v1/consignpriceservice/consignprice/price	GET	query pric informatio
/api/v1/consignpriceservice/consignprice/config	GET	query consign price conf
/api/v1/consignpriceservice/consignprice	POST	modify consignpr



Main Invocations:

This service CRUD informations via database, no other Invocations.

## ts-consign-service

Summary: This service provide APIs to create, update and query consign order.

Main APIs:

URI	Http Method	Description
/api/v1/consignservice/consigns	POST	create consign
/api/v1/consignservice/consigns	PUT	update consign
/api/v1/consignservice/consigns/account/{id}	GET	query consign by accountId
/api/v1/consignservice/consigns/order/{id}	GET	query consign by OrderId
/api/v1/consignservice/consigns/{consignee}	GET	query consign by consignee

Main Invocations:

Service	URI	Method	Description
ts-consign-price-service	/api/v1/consignpriceservice/consignprice/ + weight + area	GET	calculate consign price

**ts-contacts-service**

Summary: This service provide APIs to get all contacts, create contacts, create contacts in admin, delete contact, modify contact's information, query contacts by accountId adn query contacts by contactId.

Main APIs:

URI	Http Method	Description
api/v1/contactservice/contacts	GET	get all contacts
api/v1/contactservice/contacts	POST	create contact
api/v1/contactservice/contacts/admin	POST	create contacts in admin
api/v1/contactservice/contacts/{contactId}	DELETE	delete contacts by contactId
api/v1/contactservice/contacts	PUT	modify contacts
api/v1/contactservice/contacts/account/{accountId}	GET	query contacts by account Id
api/v1/contactservice/contacts/{id}	GET	query contacts by contactId

Main Invocations:

This service CRUD informations via database, no other Invocations.

## ts-execute-service

Summary: This service provide ticket collection and execute related API.

Main APIs:

URI	Http Method	Description
/api/v1/executeservice/execute/execute/{orderId}	GET	ticket execute API
/api/v1/executeservice/execute/collected/{orderId}	GET	ticket collected API

Main Invocations:

Service	URI	Method	Description
ts-order-service	/api/v1/orderservice/order/status/ + orderId + / + status	GET	execute order (G and D order)
ts-order-other-service	/api/v1/orderOtherService/orderOther/status/ + orderId + / + status	GET	execute other order
ts-order-service	/api/v1/orderservice/order/ + orderId	GET	get order by id
ts-order-other-service	/api/v1/orderOtherService/orderOther/ + orderId	GET	get other order by id

## ts-food-map-service

Summary: This service provide foodstoreMap and trainfoodMap APIs.

Main APIs:

URI	Http Method	Description
/api/v1/foodmapservice/foodstores	GET	get all food store map in all stations
/api/v1/foodmapservice/foodstores/{stationId}	GET	get food store map in one station
/api/v1/foodmapservice/foodstores	POST	get food stores by station list
/api/v1/foodmapservice/trainfoods	GET	get food on train
/api/v1/foodmapservice/trainfoods/{tripId}	GET	get trainfood in a trip

Main Invocations: This service CRUD informations via database, no other Invocations.

## ts-food-service

Summary: This service provide APIs to CRUD foodOrders, get all food order and get all foods in an interval.

## Main APIs:

URI	Http Method	Description
/api/v1/foodservice/orders	GET	get all foodorder
/api/v1/foodservice/orders	POST	create a foodorder
/api/v1/foodservice/createOrderBatch	POST	create food orders in batch
/api/v1/foodservice/orders	PUT	update a food order
/api/v1/foodservice/orders/{orderId}	DELETE	delete a order
/api/v1/foodservice/orders/{orderId}	GET	find order by foodid
/api/v1/foodservice/foods/{date}/{startStation}/{endStation}/{tripId}	GET	get all food

## Main Invocations:

Service	URI	Method	Description
ts-train-food-service	/api/v1/trainfoodservice/trainfoods/ + tripId	GET	get train food list
ts-travel-service	/api/v1/travelservice/routes/ + tripId	GET	get the station through which the train passes
ts-station-food-service	/api/v1/stationfoodservice/stationfoodstores	POST	get station food stores by stationNames

## ts-inside-payment-service

Summary: This service provide APIs to do inside payment, query money, top up money into account, query money info, create account.

Main APIs:

URI	Http Method	Desc
/api/v1/inside_pay_service/inside_payment	POST	pay for order
/api/v1/inside_pay_service/inside_payment/account	POST	create account

URI	Http Method	Desc
/api/v1/inside_pay_service/inside_payment/{userId}/{money}	GET	top-up mone
/api/v1/inside_pay_service/inside_payment/payment	GET	query paym
/api/v1/inside_pay_service/inside_payment/account	GET	query accou
/api/v1/inside_pay_service/inside_payment/drawback/{userId}/{money}	GET	drawk mone user
/api/v1/inside_pay_service/inside_payment/difference	POST	pay differe
api/v1/inside_pay_service/inside_payment/money	GET	query mone

Main Invocations:

Service	URI	Method	Description
ts-order-service	/api/v1/orderservice/order/ + orderId	GET	get order info by id
ts-order-other-	/api/v1/orderOtherService/orderOther/status/ + orderId + / + orderStatus	GET	get other order info by



Service	URI	Method	Description
service			id
ts-payment-service	/api/v1/paymentservice/payment	POST	call third-party payment

## ts-news-service

Summary: This service only have test content.

## ts-notification-service

Summary: This service provide API to send email when preserve success, order create success, update order success and cancel notification success.

Main APIs:

URI	Http Method	Description
/api/v1/notifyservice/notification/preserve_success	POST	preserve success, send email notification
/api/v1/notifyservice/notification/order_create_success	POST	create order success, send email notification

URI	Http Method	Description
/api/v1/notifyservice/notification/order_changed_success	POST	update order success, send email notification
/api/v1/notifyservice/notification/order_cancel_success	POST	cancel notification success, send email notification

Main Invocations:

No Invocations of other service.

## **ts-order-other-service**

Summary: This service provide API to manage other order(means order which train's ID is not start with G or D)

**(There's some RESTful problems in this service for now.)**

Main APIs:

URI	Http Method	Desc
/api/v1/orderOtherService/orderOther/tickets	<b>POST</b>	get ti by da trip ic
/api/v1/orderOtherService/orderOther	POST	creat
/api/v1/orderOtherService/orderOther/admin	POST	admi creat order
/api/v1/orderOtherService/orderOther/query	<b>POST</b>	query order
/api/v1/orderOtherService/orderOther/refresh	<b>POST</b>	query for re
/api/v1/orderOtherService/orderOther/{travelDate}/{trainNumber}	GET	query ticket
/api/v1/orderOtherService/orderOther/price/{orderId}	GET	get o price order
/api/v1/orderOtherService/orderOther/orderPay/{orderId}	GET	pay a
/api/v1/orderOtherService/orderOther/{orderId}	GET	get o id
/api/v1/orderOtherService/orderOther/status/{orderId}/{status}	<b>GET</b>	Modi order

URI	Http Method	Desc
/api/v1/orderOtherService/orderOther/security/{checkDate}/{accountId}	GET	chec order secu
/api/v1/orderOtherService/orderOther	PUT	modi order
/api/v1/orderOtherService/orderOther/admin	PUT	upda order
/api/v1/orderOtherService/orderOther/{orderId}	DELETE	delet
/api/v1/orderOtherService/orderOther	GET	find a order

Main Invocations:

Service	URI	Method	Description
ts-station-service	/api/v1/stationservice/stations/namelist	POST	query station name list

## ts-order-service

Summary: This service provide API to manage order(means order which train's ID **IS** start with G

(There's some RESTful problems in this service for now.)

Main APIs:

URI	Http Method	Description
/api/v1/orderservice/order/tickets	<b>POST</b>	get ticket list by date and trip id
/api/v1/orderservice/order/	POST	create order
/api/v1/orderservice/order/admin	POST	admin create new order
/api/v1/orderservice/order/query	<b>POST</b>	query orders
/api/v1/orderservice/order/refresh	<b>POST</b>	query order for refresh
/api/v1/orderservice/order/{travelDate}/{trainNumber}	GET	query sold tickets
/api/v1/orderservice/order/price/{orderId}	GET	get order price by orderId
/api/v1/orderservice/order/orderPay/{orderId}	GET	pay a order
/api/v1/orderservice/order/{orderId}	GET	get order by id

URI	Http Method	Description
/api/v1/orderservice/order/status/{orderId}/{status}	GET	Modify order
/api/v1/orderservice/order/security/{checkDate}/{accountId}	GET	check order's security
/api/v1/orderservice/order	PUT	modify orders
/api/v1/orderservice/order/admin	PUT	update order
/api/v1/orderservice/order/{orderId}	DELETE	delete order
/api/v1/orderservice/order	GET	find all order

Main Invocations:

Service	URI	Method	Description
ts-station-service	/api/v1/stationservice/stations/namelist	POST	query station name list

## ts-payment-service

Summary: This service provide API to create payment, top up money and query payment

Main APIs:

URI	Http Method	Description
/api/v1/paymentservice/payment	POST	create a payment
/api/v1/paymentservice/payment/money	POST	top up money
/api/v1/paymentservice/payment	GET	query payment

Main Invocations:

**This service CRUD informations via database, no other Invocations.**

## ts-preserve-other-service

Summary: This service provide API to preserve other train's ticket.

Main APIs:

URI	Http Method	Description
/api/v1/preserveotherservice/preserveOther	POST	preserve ticket

Main Invocations:

Service	URI	Method	Description
ts-ticketinfo-	/api/v1/ticketinfoservice/ticketinfo	POST	query ticket info

Service	URI	Method	Description
service			
ts-seat-service	/api/v1/seatservice/seats	POST	dispatch seat for this order
ts-user-service	/api/v1/userservice/users/id/ + accountId	GET	get account info
ts-assurance-service	/api/v1/assuranceservice/assurances/ + assuranceType + / + orderId	GET	get assurance result
ts-station-service	/api/v1/stationservice/stations/id/ + stationName	GET	query station id
ts-security-service	/api/v1/securityservice/securityConfigs/ + accountId	GET	check security config
ts-travel2-service	/api/v1/travel2service/trip_detail	POST	get trip detail result
ts-contacts-service	/api/v1/contactservice/contacts/+contactsId	GET	get contacts by Id
ts-order-other-service	/api/v1/orderOtherService/orderOther	POST	create order
ts-food-service	/api/v1/foodservice/orders	POST	order food



Service	URI	Method	Description
ts-consign-service	/api/v1/consignservice/consigns	POST	create consign entity

## ts-preserve-service

Summary: This service provide API to preserve train's ticket.

Main APIs:

URI	Http Method	Description
/api/v1/preserveservice/preserve	POST	preserve ticket

Main Invocations:

Service	URI	Method	Description
ts-ticketinfo-service	/api/v1/ticketinfoservice/ticketinfo	POST	query ticket info
ts-seat-service	/api/v1/seatservice/seats	POST	dispatch seat for this order
ts-user-service	/api/v1/userservice/users/id/ + accountId	GET	get account info

Service	URI	Method	Description
ts-assurance-service	/api/v1/assuranceservice/assurances/ + assuranceType + / + orderId	GET	get assurance result
ts-station-service	/api/v1/stationservice/stations/id/ + stationName	GET	query station id
ts-security-service	/api/v1/securityservice/securityConfigs/ + accountId	GET	check security config
ts-travel-service	/api/v1/travelservice/trip_detail	POST	get trip detail result
ts-contacts-service	/api/v1/contactservice/contacts/+contactsId	GET	get contacts by Id
ts-order-service	/api/v1/orderService/order	POST	create order
ts-food-service	/api/v1/foodservice/orders	POST	order food
ts-consign-service	/api/v1/consignservice/consigns	POST	create consign entity

## ts-price-service

Summary: This service provide API to calculate tickets' price and manage price configs.

Main APIs:

URI	Http Method	Description
/api/v1/priceservice/prices/{routeId}/{trainType}	GET	get price by routeid and train type.
/api/v1/priceservice/prices	GET	get all price config
/api/v1/priceservice/prices	POST	create price config
/api/v1/priceservice/prices	DELETE	delete price config
/api/v1/priceservice/prices	PUT	update price config

Main Invocations:

**This service CRUD informations via database, no other Invocations.**

## ts-rebook-service

Summary: Train ticket rescheduling API and differential payment API are provided in this service.

Main APIs:

URI	Http Method	Description
/api/v1/rebookservice/rebook	POST	endorse train ticket

URI	Http Method	Description
/api/v1/rebookservice/rebook/difference	POST	pay for the price difference

Main Invocations:

Service	URI	Method	Descript
ts-ticketinfo-service	/api/v1/ticketinfoservice/ticketinfo	POST	query tick info
ts-seat-service	/api/v1/seatservice/seats	POST	dispatch seat for tl order
ts-train-service	/api/v1/train-service/trains/byName/ + trainTypeName	GET	get train type, as param for dispatch seat
ts-route-service	/api/v1/routeservice/routes/ + routeId	GET	query stations, i param for dispatch seat
ts-security-	/api/v1/securityservice/securityConfigs/ + accountId	GET	check security

Service	URI	Method	Descript
service			config
ts-travel-service	/api/v1/travelservice/trip_detail	POST	get trip detail res
ts-travel2-service	/api/v1/travel2service/trip_detail	POST	get trip detail res
ts-order-service	/api/v1/orderService/order	POST	create ord
ts-order-other-service	/api/v1/orderOtherService/orderOther	POST	create ord
ts-inside-payment-service	/api/v1/inside_pay_service/inside_payment/difference	POST	internal payment

## ts-route-plan-service

Summary: This service provide APIs to get cheapest Route, quickest Route and min Stop Stations Route.

Main APIs:

URI	Http Method	Description
/api/v1/routeplanservice/routePlan/cheapestRoute	POST	get routes in cheapest order
/api/v1/routeplanservice/routePlan/quickestRoute	POST	get routes in quickest order
/api/v1/routeplanservice/routePlan/minStopStations	POST	get routes in minStops Order

Main Invocations:

Service	URI	Method	Description
ts-travel-service	/api/v1/travelservice/trip_detail	POST	get trip detail
ts-station-service	/api/v1/stationservice/stations/id/+stationName	GET	get stationId by name
ts-route-service	/api/v1/routeservice/routes/ + routeId	GET	get route info by routeId
ts-travel-service	/api/v1/travelservice/trips/left	POST	get trip information
ts-travel2-	/api/v1/travel2service/trips/left	POST	get trip information

Service	URI	Method	Description
service			
ts-travel-service	/api/v1/travelservice/routes/ + tripId	GET	get station list
ts-travel-service	/api/v1/travelservice/trips/routes	GET	get trips by routeId
ts-travel2-service	/api/v1/travel2service/trips/routes	GET	get trips by routeId

## ts-route-service

Summary: This service provide APIs to CRUD route informations.

Main APIs:

URI	Http Method	Description
/api/v1/routeservice/routes	POST	create and modify route info
/api/v1/routeservice/routes/{routeId}	DELETE	delete route info
/api/v1/routeservice/routes/{routeId}	GET	GET route info
/api/v1/routeservice/routes	GET	GET all routes' info

URI	Http Method	Description
/api/v1/routeservice/routes/{startId}/{terminalId}	GET	get route by start and terminate station

Main Invocations:

**This service CRUD informations via database, no other Invocations.**

## ts-seat-service

Summary: This service provide APIs to allocate seats for users and query left tickets in an interval.

Main APIs:

URI	Http Method	Description
/api/v1/seatservice/seats	POST	allocate seats for users
/api/v1/seatservice/seats/left_tickets	POST	get left tickets in an interval

Main Invocations:



Service	URI	Method	Description
ts-travel-service	/api/v1/travelservice/routes/+trainNumber	GET	get all the stops for the train
ts-order-service	/api/v1/orderservice/order/tickets	POST	get left tickets
ts-order-other-service	/api/v1/orderOtherService/orderOther/tickets	POST	get left tickets
ts-travel-service	/api/v1/travelservice/train_types/ + trainNumber	GET	get train's type
ts-config-service	/api/v1/configservice/configs/+configName	GET	get config file

## ts-security-service

Summary: This service provide APIs to manage security config files, includes add, delete, query, modify config file and check account id.

Main APIs:

URI	Http Method	Description
/api/v1/securityservice/securityConfigs	GET	get all security config

URI	Http Method	Description
/api/v1/securityservice/securityConfigs	POST	create new security config
/api/v1/securityservice/securityConfigs	PUT	modify security config
/api/v1/securityservice/securityConfigs/{id}	DELETE	delete one config
/api/v1/securityservice/securityConfigs/{accountId}	GET	check account id

Main Invocations:

Service	URI	Method	Description
ts-order-service	/api/v1/orderservice/order/security/ + checkDate + / + accountId	GET	get security order info
ts-order-other-service	/api/v1/orderOtherService/orderOther/security/ + checkDate + / + accountId	GET	get security other order info

## ts-station-service

Summary: This service provide APIs to CRUD station information, and it also provide APIs to get station name by id and get station id by name.

Main APIs:

URI	Http Method	Description
/api/v1/stationservice/stations	GET	get stations
/api/v1/stationservice/stations	POST	create new station
/api/v1/stationservice/stations	PUT	update station information
/api/v1/stationservice/stations/{stationId}	DELETE	delete station
/api/v1/stationservice/stations/id/{stationNameForId}	GET	query station id by stationName
/api/v1/stationservice/stations/idlist	POST	get id list by name list
/api/v1/stationservice/stations/name/{stationIdForName}	GET	get stationName by id
/api/v1/stationservice/stations/namelist	POST	get id list by name list

Main Invocations:

**This service CRUD informations via database, no other Invocations.**

**ts-ticket-office-service**

Summary: This service provide APIs to get ticket office information and manage ticket office information.

Main APIs:

URI	Http Method	Description
/getRegionList	GET	get region which provide ticket office
/getAll	GET	get all ticket office info
/getSpecificOffices	POST	get specific ticket office
/addOffice	POST	add new ticket office
/deleteOffice	DELETE	delete ticket office
/updateOffice	<b>POST</b>	update ticket office

Main Invocations:

**This service CRUD informations via database, no other Invocations.**

## ts-ticketinfo-service

Summary:

This service provide APIs to get travel information and query stationId.

Main APIs:

URI	Http Method	Description
/api/v1/ticketinfoservice/ticketinfo	POST	query travel info
/api/v1/ticketinfoservice/ticketinfo/{name}	GET	query stationId by name

Main Invocations:

Service	URI	Method	Description
ts-basic-service	/api/v1/basicservice/basic/travel	POST	query basic travel information
ts-basic-service	/api/v1/basicservice/basic/" + name	GET	query stationId by name

## ts-train-service

Summary: This service provide APIs to manage train information, includes create train entity, update train information, get train's information and delete trains information

Main APIs:

URI	Http Method	Description
/api/v1/trainservice/trains	POST	create trains entity

URI	Http Method	Description
/api/v1/trainservice/trains	PUT	update trains information
/api/v1/trainservice/trains/{id}	GET	get train's info by id
/api/v1/trainservice/trains/{id}	DELETE	delete train's info by id
/api/v1/trainservice/trains	GET	query train types
/api/v1/trainservice/trains/byName/{name}	GET	get train types by name

Main Invocations:

**This service CRUD informations via database, no other Invocations.**

## ts-travel-plan-service

Summary: This service provide APIs to get travel plan, includes cheapest travel plan, quickest travel plan, min station travel plan.

Main APIs:

URI	Http Method	Description
api/v1/travelplanservice/travelPlan/transferResult	POST	get transfer search result

URI	Http Method	Description
api/v1/travelplanservice/travelPlan/cheapest	POST	get cheapest travel plan
api/v1/travelplanservice/travelPlan/quickest	POST	get quickest travel plan
api/v1/travelplanservice/travelPlan/minStation	POST	get min station amount travel plan

Main Invocations:

Service	URI	Method	Description
ts-seat-service	/api/v1/seatservice/seats/left_tickets	POST	get left tickets
ts-route-plan-service	/api/v1/routeplanservice/routePlan/cheapestRoute	POST	get cheapest route
ts-route-plan-service	/api/v1/routeplanservice/routePlan/quickestRoute	POST	get quickest route
ts-route-plan-service	/api/v1/routeplanservice/routePlan/minStopStations	POST	get min stop stations route

Service	URI	Method	Description
ts-travel-service	/api/v1/travelservice/trips/left	POST	get high speed trip
ts-travel2-service	/api/v1/travel2service/trips/left	POST	get normal train's trip
ts-ticketinfo-service	/api/v1/ticketinfoservice/ticketinfo/+stationName	GET	query station id by Name
ts-station-service	/api/v1/stationservice/stations/namelist	POST	get station name list by station Id list

## ts-travel-service

Summary: This service provide APIs to manage high speed train's trip.

Main APIs:

URI	Http Method	Description
/api/v1/travelservice/train_types/{tripId}	GET	get train type by tripId
/api/v1/travelservice/routes/{tripId}	GET	get route by tripId



URI	Http Method	Description
/api/v1/travelservice/trips/routes	POST	get trip by routeId
/api/v1/travelservice/trips	POST	create trip
/api/v1/travelservice/trips/{tripId}	GET	get trip information by tripId
/api/v1/travelservice/trips	PUT	update trip
/api/v1/travelservice/trips/{tripId}	DELETE	delete a trip
/api/v1/travelservice/trips/left	POST	get left trip tickets
/api/v1/travelservice/trip_detail	POST	get trip info with left tickets
/api/v1/travelservice/trips	GET	query all trips
/api/v1/travelservice/admin_trip	GET	query all trip as an administrator

Main Invocations:

Service	URI	Method	Description
ts-basic-service	/api/v1/basicservice/basic/travel	POST	query basic travel information
ts-train-service	/api/v1/train-service/trains/byName/	GET	get trainType by train type name

Service	URI	Method	Description
ts-route-service	/api/v1/routeservice/routes/ + routeId	GET	get route information by routeId
ts-seat-service	/api/v1/seatservice/seats/left_tickets	POST	get left tickets

## ts-travel2-service

Summary: This service provide APIs to manage normal train's trip.

Main APIs:

URI	Http Method	Description
/api/v1/travel2service/train_types/{tripId}	GET	get train type by tripId
/api/v1/travel2service/routes/{tripId}	GET	get route by tripId
/api/v1/travel2service/trips/routes	POST	get trip by routeId
/api/v1/travel2service/trips	POST	create trip
/api/v1/travel2service/trips/{tripId}	GET	get trip information by tripId
/api/v1/travel2service/trips	PUT	update trip
/api/v1/travel2service/trips/{tripId}	DELETE	delete a trip
/api/v1/travel2service/trips/left	POST	get left trip tickets

URI	Http Method	Description
/api/v1/travel2service/trip_detail	POST	get trip info with left tickets
/api/v1/travel2service/trips	GET	query all trips
/api/v1/travel2service/admin_trip	GET	query all trip as an administrator

Main Invocations:

Service	URI	Method	Description
ts-basic-service	/api/v1/basicservice/basic/travel	POST	query basic travel information
ts-train-service	/api/v1/train-service/trains/byName/	GET	get trainType by train type name
ts-route-service	/api/v1/routeservice/routes/ + routeId	GET	get route information by routeId
ts-seat-service	/api/v1/seatservice/seats/left_tickets	POST	get left tickets

## ts-ui-dashboard

Summary: This repository provide all the UI interface to interact with the system.

## ts-ui-test

Summary: This repository provide all tests to test UI interface.

## ts-user-service

Summary: This service provide APIs to manage user information, includes register user, get user by username, get user by userId, and allow administrator to delete a user.

Main APIs:

URI	Http Method	Description
/api/v1/userservice/users	GET	get all users
/api/v1/userservice/users/{userName}	GET	get user by username
/api/v1/userservice/users/id/{userId}	GET	get user by id
/api/v1/userservice/users/register	POST	register user
/api/v1/userservice/users/{userId}	DELETE	delete user by id

Main Invocations:

Service	URI	Method	Description
ts-auth-service	/api/v1/auth	POST	create default user

## ts-verification-code-service

Summary:

This service provide APIs to generate verification code pictures and verify code which user send.

Main APIs:

URI	Http Method	Description
/api/v1/verifycode/generate	GET	generate verification code
/api/v1/verifycode/verify/{verifyCode}	GET	check verify code which user send

Main Invocations:

No other Invocations.

## ts-voucher-service

Summary: This service provide APIs to generate the reimbursement voucher based on the order id.

Main APIs:

URI	Http Method	Description
/getVoucher	POST	generate the reimbursement voucher based on the order id

Main Invocations:

Service	URI	Method	Description
ts-order-other-service	/api/v1/orderOtherService/orderOther/ + orderId	GET	query order information by orderId
ts-order-service	/api/v1/orderservice/order/+orderId	GET	query high speed order information by orderId

## ts-wait-order-service

Summary: This service provide APIs to manage waitlist orders.

Main APIs:

URI	Http Method	Description
/api/v1/waitorderservice/order	POST	create a waitlist order
/api/v1/waitorderservice//waitlistorders	GET	get all waitlist orders

Main Invocations:

No other Invocations.

## ts-train-food-service

Summary: This service provide APIs to CRUD train food.

Main APIs:

URI	Http Method	Description
/api/v1/trainfoodservice/trainfoods	GET	get all train food
/api/v1/trainfoodservice/trainfoods/{tripId}	GET	get train food list by trip id

Main Invocations:

No other Invocations.

## ts-station-food-service

Summary: This service provide APIs to CRUD station food.

Main APIs:

URI	Http Method	
/api/v1/stationfoodservice/stationfoodstores	GET	ge st
/api/v1/stationfoodservice/stationfoodstores/{stationId}	GET	ge st St
/api/v1/stationfoodservice/stationfoodstores	POST	ge st St
/api/v1/stationfoodservice/stationfoodstores/bystoreid/{stationFoodStoreId}	GET	ge st st

Main Invocations:

No other Invocations.

## ts-food-delivery-service

Summary: This service provide APIs to CRUD food delivery orders.

Main APIs:



URI	Http Method	Description
/api/v1/fooddeliveryservice/orders	POST	create a food delivery order
/api/v1/fooddeliveryservice/orders/d/{orderId}	DELETE	delete a food delivery order
/api/v1/fooddeliveryservice/orders/{orderId}	GET	get a food delivery order
/api/v1/fooddeliveryservice/orders/all	GET	get all food delivery orders
/api/v1/fooddeliveryservice/orders/store/{storeId}	GET	get food delivery orders by storeId
/api/v1/fooddeliveryservice/orders/tripid	PUT	update food delivery orders' trip id
/api/v1/fooddeliveryservice/orders/seatno	PUT	update food delivery orders' seat number
/api/v1/fooddeliveryservice/orders/dtime	PUT	update food delivery orders' delivery time

Main Invocations:

Service	URI	Method	Descriptio
ts- station- food- service	/api/v1/stationfoodservice/stationfoodstores/bystoreid/ + stationFoodStoreId	GET	get station food store info by id

[CodeWisdom](#) Any questions, please submit an issue or open a pull request, thanks!