

Shipment API Documentation

INTRODUCTION

About the API

- A solution that allows users to track their shipment in real time.

Development Tools & Languages

Backend

- PHP

Database

- MySQL

Communication Platform

- JSON

ALL API SERVICES

- | | |
|--------------------------|------------------------------|
| ▪ Registration | ▪ Start shipment |
| ▪ Login | ▪ Receive package |
| ▪ Post Shipment | ▪ Finish shipment |
| ▪ Edit Shipment | ▪ Cancel shipment |
| ▪ Delete Shipment | ▪ Update location |
| ▪ List Shipment | ▪ Get shipment status |
| ▪ Accept Shipment | |

REGISTRATION

Description

- Allows new users to register to the system.

Access URL

- **/register/**
- Example: <https://example.com/ShipmentApi/register/>

Required Fields

- Full name(**required**)
- E-mail(**required**)

- Password(required)
- Confirm password(required)
- Profile Picture
- User Type(required)

Verification (Server side)

- E-mail (unique, valid)
- Password (min length, valid format)

Rule

- User Type only “ADMIN” or “DELIVERY_MAN”

Database

user_table					
user_id	full_name	e_mail	registration_date	password	profile_pic_url

Request Example

- http://localhost/ShipmentApi/register.php?full_name=JilaluAschalew&email=jil@gmail.com&password=123456789&confirm_password=123456789&profile_pic_url=aman.jpg&user_type=DELIVERY_MAN

Response

Success

```
{
  "server_response" : "registration_success"
}
```

Error

```
{
  "server_response" : "registration_error",
  "error" : "error_message"
}
```

LOGIN

Description

- Allows users to authenticate and login to the system

Access URL

- [/login/](#)
- Example: [https://example.com/ ShipmentApi /login/](https://example.com/ShipmentApi/login/)

Required Fields

- E-mail (required)
- Password (required)

Verification

- E-mail (unique, valid)
- Password (Min length, Valid)

Database

- Uses [user_table](#)

Request Example

- <http://localhost/ShipmentApi/Login.php?email=kebe@gmail.com&password=123456789>

Response

Success

```
{
  "server_response" : "success",
  "COOKIE" : "SET",
  "USER_ID" : "2",
  "USER_EMAIL" : "am9AZ21sjjddjddjt",
  "USER_PASSWORD" : "45G7hjkkcqk"
}
```

Error

```
{
  "server_response" : "login_error",
  "error" : "error_message"
}
```

POST SHIPMENT

Description

- Allows admin to post or add new shipment to the system

Access URL

- [/post_shipment/](#)
- Example: https://example.com/ShipmentApi/post_shipment/

Pre Requirements

- Authentication
- [user_exists](#) (variable that determines the existence of the user)

Required Fields

- Starting location (required)
- Destination (required)
- Starting time (required)
- End-time (optional)
- Receiver address (Name, Phone, House no, Destination name) (required)
- Note (optional)
- Mode (required)(Example Shipping only)

Auto taken fields

- [user_id](#) (foreign key from users_table)

Validation

- Validate whether required fields are empty or not.

Process

- Check the creator of the post is admin.

Database (Uses Shipment Table)

- [shipment_id](#), [user_id](#), [delivery_man_id](#), [receiver_address](#), [starting_location](#), [destination_location](#), [starting_time](#), [end_time](#), [created_at](#), [shipment_status](#), [delivery_man_starting_location](#), [path](#), [current_location](#), [note](#), [mode](#)

Request Example

- http://localhost/ShipmentApi/post_shipment.php?starting_loc=4.5485,8.54135&destination_lo=8.4151351,9.646464&starting_time=4:35 PM&end_time=8:44 AM&receiver_address=Aschalew Gizachew, 0912554758, Addis Ababa¬e=sajsaljljsalhlalsdlsad aljsbd&mode=Package only

Response

Success

```
{
  "server_response" : "post_shipment_success"
}
```

Error

```
{
  "server_response" : "post_shipment_error",
  "error" : "error_message"
}
```

Edit Shipment

Description

- Allows the admin to edit shipping informations like starting location or destination location or other.

Access URL

- [/edit_shipment/](#)
- Example: https://example.com/ShipmentApi/edit_shipment/

Pre Requirements

- Authentication
- User exists

Required Fields

- Starting location (required)
- Destination (required)
- Starting time (required)
- End-time (optional)
- Receiver address (Name, Phone, House no, Destination name) (required)
- Note (optional)
- Mode (required)(Example Shipping only)

URL queries

- Shipment_id

Process

- Check if shipment exists or not

- Shipment status should be open

Request Example

- http://localhost/ShipmentApi/edit_shipment.php?shipment_id=9&starting_loc=45.225,46.4564&destination_loc=45.225,46.4564&starting_time=8:55 AM&end_time=2:20 PM&receiver_address=Kebede Gizachew, 0912554758, Addis Ababa¬e=afdjsadjfajakjdfkJDfkda FDA &mode=Package only

Response

Success

```
{
  "server_response" : "edit_shipment_success"
}
```

Error

```
{
  "server_response" : "edit_shipment_error",
  "error" : "error_message"
}
```

Delete Shipment

Description

- Allows the admin to delete the shipment

Access URL

- [/delete_shipment/](#)
- Example: https://example.com/ShipmentApi/delete_shipment/

Pre Requirements

- Authentication
- User exists

URL queries

- shipment_id

Process

- Check if shipment exists or not
- Shipment status should be open

Request Example

- http://localhost/ShipmentApi/delete_shipment.php?shipment_id=9

Response

Success

```
{
  "server_response" : "delete_shipment_success"
}
```

Error

```
{
  "server_response" : "delete_shipment_error",
  "error" : "error_message"
}
```

List Shipment

Description

- Allows both the admin and the delivery boy to see available shipment lists but with different privilege as expressed at the rule below.

Access URL

- [/list_shipment/](#)
- Example: https://example.com/ShipmentApi/list_shipment/

URL queries

- shipment_status

Pre Requirements

- Authentication
- User exists

Rule

- 10 shipments per request
- Only admin can see the shipments that he/she created
- Delivery man can only see the open shipments

URL queries

- limit
- offset
- shipment_status=open
- shipment_status=accepted
- shipment_status=started

- shipment_status=received
- shipment_status=delivered
- shipment_status=All
-

Request Example

- http://localhost/ShipmentApi/list_shipment.php?shipment_status=All&limit=2&offset=3

Process

Admin	Delivery man
<ul style="list-style-type: none"> • Can see Everything 	<ul style="list-style-type: none"> • Can only see open shipment
<p>Success</p> <pre>{ "server_response" : "list_shipment_success", "shipment_id":"1", "user_id":"1", "delivery_man_id":"4", "receiver_address":"76454,34334 5", "starting_location":"678965,976 43", "destination_location":"434224, 877865", "starting_time":"343443","end_t ime":"877655", "created_at":"545433", "shipment_status":"1", "delivery_man_starting_location ":"234566,4545434", "path":"12444,54674 546544,4567 5 567456,98765 567554,675443", "current_location":"567554,6754 43", "note":"sakfksja skaf ksa dh","mode":"Shipping only" },{ "shipment_id":"2", "user_id":"1", "delivery_man_id":"5", "receiver_address":"76454,34334 5", "starting_location":"678965,976 43", "destination_location":"434224, 877865", "starting_time":"343443","end_t ime":"877655", "created_at":"545433", "shipment_status":"1", "delivery_man_starting_location ":"234566,4545434", "path":"12444,54674 546544,4567 5 567456,98765 567554,675443", "current_location":"567554,6754 43",</pre>	<p>Success</p> <pre>{ "server_response" : "list_shipment_success", "shipment_id":"1", "receiver_address":"7 6454,343345", "starting_location":" 678965,97643", "destination_location ":"434224,877865", "starting_time":"3434 43","end_time":"87765 5", "note":"sakfksja skaf ksa dh","mode":"Shipping only" },{ "shipment_id":"2", "receiver_address":"7 6454,343345", "starting_location":" 678965,97643", "destination_location ":"434224,877865", "starting_time":"3434 43","end_time":"87765 5", "note":"sakfksja skaf ksa dh","mode":"Shipping only" }</pre>

<pre> ,"note":"sagflksabkfsakb:Cancel - dxhcjgckj","mode":"Shipping only"} </pre>	
<pre> Error { "server_response" : " list_shipment_error", "error":"error_message"} </pre>	<pre> Error { "server_response" : " list_shipment_error", "error":"error_message"} </pre>

Get Shipment Status

Description

- Allows the admin to see the shipment detail including current location.

Access URL

- / get_shipment_status/
- Example: https://Example.com/ShipmentApi/get_shipment_status/

Pre Requirements

- Authentication
- User exists

URL queries

- Admin
 - shipment_id
- Delivery man
 - shipment_id
 - shipment_status

Rule

- Delivery man can only see open and accepted shipments
- Delivery man can only see the status of the shipment that he assigned to (if shipment status is started)
- Admin can only see shipments that he created.

Request Example

- http://localhost/ShipmentApi/get_shipment_status.php?shipment_id=8

Response

Admin	Delivery man
Success <pre> { "server_response" : "get_shipment_status_success", "shipment_id":"1", "user_id":"1", "delivery_man_id":"4", "receiver_address":"76454,343345", "starting_location":"678965,97643", "destination_location":"434224,877865", "starting_time":"343443", "end_time":"877655", "created_at":"545433", "shipment_status":"1", "delivery_man_starting_location":"234566,4545434", "path":"12444,54674 546544,45675 567456,98765 567554,675443", "current_location":"567554,675443", "note":"sakfksja skaf ksa dh", "mode":"Shipping only" } </pre>	Success(when status is open) <pre> { "server_response" : "get_shipment_status_success", "starting_location":"232345,454544", "destination":"345343,45454", "starting_time":"342324", "end_time":"6565545", "receiver_address":"5644367,6543667", "note":"ashahsjhsdjhsjkd", "mode":"dfdsfdfsfsf" } </pre> Success (when status is started and accepted by this user) <pre> { "server_response" : "get_shipment_status_success", "shipment_id":"1", "user_id":"1", "delivery_man_id":"4", "receiver_address":"76454,343345", "starting_location":"678965,97643", "destination_location":"434224,877865", "starting_time":"343443", "end_time":"877655", "created_at":"545433", "shipment_status":"1", "delivery_man_starting_location":"234566,4545434", "path":"12444,54674 546544,45675 567456,98765 567554,675443", "current_location":"567554,675443", "note":"this gay:Cancel - because the car Engine is fail", "mode":"Shipment only" } </pre>
Error <pre> { "server_response" : "list_shipment_error ", "error":"error_message"} </pre>	Error <pre> { "server_response" : "get_shipment_status_error ", "error":"error_message"} </pre>

Accept Shipment

Description

- Allows the delivery boy to accept the shipment posted.

Access URL

- /accept_shipment/
- https://Example.com/ShipmentsApi/accept_shipment/

Rule

- Should be delivery man
- Should be open shipment(status)

Auto taken

- shipment_id
- delivery_man_id

Request Example

- http://localhost/ShipmentsApi/accept_shipment.php?shipment_id=1

Response

Success

```
{
  "server_response" : "accept_shipment_success"
}
```

Error

```
{
  "server_response" : "accept_shipment_error",
  "error" : "error_message"
}
```

Start Shipment

Description

- It informs the system that the delivery boy started shipping.

Access URL

- / start_shipment /
- Example: https://Example.com/ShipmentsApi/start_shipment /

Rule

- Should be delivery man
- Should be accepted status by current delivery man

Auto taken

- Starting location
- shipment_id
- delivery_man_id

Request Example

- http://localhost/ShipmentApi/start_shipment.php?shipment_id=1&starting_location=45.46513515,8.1655165

Response

Success

```
{
  "server_response" : "start_shipment_success"
}
```

Error

```
{
  "server_response" : "start_shipment_error",
  "error" : "error_message"
}
```

Receive Package

Description

- It informs the system that the delivery boy received the package to be delivered.

Access URL

- [/receive_package/](#)
- Example: https://Example.com/ShipmentApi/receive_package/

Rule

- Should be delivery man
- Should be accepted status by current delivery man

Auto taken

- shipment_id
- delivery_man_id

Request Example

- http://localhost/ShipmentApi/receive_package.php?shipment_id=1

Response

Success

```
{
  "server_response" : "received_shipment_success"
}
```

Error

```
{
  "server_response" : "received_shipment_error",
  "error" : "error_message"
}
```

Finish Shipment

Description

- It informs the system that the delivery boy shipped the item successfully.

Access URL

- /finish_shipment/
- Example: [https:// Example.com/ShipmentApi /finish_shipment/](https://Example.com/ShipmentApi/finish_shipment/)

Rule

- Should be delivery man
- Should be accepted status by current delivery man

Auto taken

- delivery_man_id
- shipment_id

Request Example

- http://localhost/ShipmentApi/finish_shipment.php?shipment_id=1

Response

Success

```
{
  "server_response" : "finish_shipment_success"
}
```

Error

```
{
  "server_response" : "finish_shipment_error",
  "error" : "error_message"
}
```

Cancel Shipment

Description

- Allows the admin or delivery boy to cancel the shipment.

Access URL

- [/cancel_shipment/](#)
- Example: https://Example.com/ShipmentApi/cancel_shipment/

Rule

- Should be delivery man
- Should be accepted status by current delivery man

Auto taken

- delivery_man_id
- shipment_id
- reason

Request Example

- http://localhost/ShipmentApi/cancel_shipment.php?shipment_id=1&reason=Engine crashed

Response

Success

```
{
  "server_response" : "cancel_shipment_success"
}
```

Error

```
{
  "server_response" : "cancel_shipment_error",
  "error" : "error_message"
}
```

Update Location

Description

- Allows the delivery boy to update the shipment.location

Access URL

- / update_location/
- Example: [https://Example.com/ShipmentApi/ update_location/](https://Example.com/ShipmentApi/update_location/)

Rule

- Should be delivery man
- Should be Started status by current delivery man

Auto taken

- delivery_man_id

URL queries

- Shipment_id
- current_location

Request Example

- http://localhost/ShipmentApi/update_location.php?shipment_id=6¤t_location=45.7895,8.5465454

Response

Success

```
{
  "server_response" : " update_location_success"
}
```

Error

```
{
  "server_response" : " update_location_error",
  "error" : "error_message"
}
```