

# Zhift API

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## Error JSON:

{Status, Name, Message}

## Organization

URLs relative to **/org**, unless otherwise noted:

Method	HTTP request	Description
POST	<p>/</p> <p><b>Request Body:</b> { name: "Zhift" }</p>	<p>Creates an organization with a given unique name</p> <p><b>Response:</b> Organization JSON.</p> <p><b>Success:</b> { _id: AUTOGENERATED, name: "Zhift" }</p> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"><li>Given name is not unique<ul style="list-style-type: none"><li><b>Status:</b></li><li><b>Name:</b> Bad Input</li><li><b>Message:</b> Organization name already exists!</li></ul></li><li>Unable to create mongo object<ul style="list-style-type: none"><li><b>Status:</b></li><li><b>Name:</b> Server Failure</li><li><b>Message:</b> Unable to process request</li></ul></li></ol>
GET	<p>/:id</p> <p><b>Request Body:</b> { }</p>	<p>Retrieves the organization object with the given id</p> <p><b>Response:</b> Organization JSON</p> <p><b>Success:</b> { _id: AUTOGENERATED, name: "Zhift" }</p> <p><b>Failure:</b> Error JSON</p>

		<ol style="list-style-type: none"><li>1. Organization with given ID does not exist<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Bad Input</li><li>• <b>Message:</b> An organization with that ID does not exist!</li></ul></li><li>2. Unable to get mongo object<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Server failure</li><li>• <b>Message:</b> Unable to process request</li></ul></li></ol>
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## Schedule

URLs relative to **/schedule**, unless otherwise noted:

Method	HTTP request	Description
POST	<p>/</p> <p><b>Request Body:</b> { org: "Zhift", role: "Cashier" }</p>	<p>Creates a new schedule with a unique role name associated with an existing organization</p> <p><b>Response:</b> Schedule JSON.</p> <p><b>Success:</b> { _id: AUTOGENERATED, org: "Zhift", role: "Cashier" }</p> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"><li>1. Organization with given name does not exist<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Bad Input</li><li>• <b>Message:</b> Cannot create schedule: An organization with that name does not exist!</li></ul></li><li>2. A Schedule with that role already exists<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Bad Input</li><li>• <b>Message:</b> Cannot create schedule: A schedule with this role already exists</li></ul></li><li>3. Request is not from a manager of the org<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Invalid permissions</li><li>• <b>Message:</b> You do not have permission to add a schedule to this organization</li></ul></li><li>4. Unable to get mongo object<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Server failure</li><li>• <b>Message:</b> Unable to process request</li></ul></li></ol>
DELETE	<p>/:id</p> <p><b>Request Body:</b> { }</p>	<p>Removes a schedule with the given id</p> <p><b>Response:</b> JSON.</p> <p><b>Success:</b> { }</p>

		<p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>Schedule with given ID does not exist <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Bad Input</li> <li><b>Message:</b> Cannot remove schedule: Schedule with given ID does not exist</li> </ul> </li> <li>Request is not from a manager of the org <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Invalid permissions</li> <li><b>Message:</b> You do not have permission to remove a schedule to this organization</li> </ul> </li> <li>Unable to remove mongo object <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Server failure</li> <li><b>Message:</b> Unable to process request</li> </ul> </li> </ol>
GET	/:id	<p>Gets a new schedule with the given id</p> <p><b>Response:</b> Schedule JSON.</p> <p><b>Success:</b> {_id: AUTOGENERATED, org: "Zhift", role: "Cashier"}</p> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>Schedule with given ID does not exist <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Bad Input</li> <li><b>Message:</b> A schedule with that ID does not exist!</li> </ul> </li> <li>Request is not from a manager of the org or from an employee belonging to that schedule <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Invalid permissions</li> <li><b>Message:</b> You do not have permission to view this schedule</li> </ul> </li> <li>Unable to get mongo object <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Server failure</li> <li><b>Message:</b> Unable to process request</li> </ul> </li> </ol>

GET	/org/:org_id	<p>Gets all the schedules associated with an organization of given id</p> <p><b>Response:</b> JSON.</p> <p><b>Success:</b></p> <pre>{schedules: [   { _id: AUTOGENERATED,     org: "Zhift",     role: "Cashier"},    { _id: AUTOGENERATED,     org: "Zhift",     role: "Chefs"}, ]}</pre> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>Organization with given ID does not exist <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Bad Input</li> <li><b>Message:</b> An organization with that ID does not exist!</li> </ul> </li> <li>Request is not from a manager of the org <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Invalid permissions</li> <li><b>Message:</b> You do not have permission to get all schedules of this organization</li> </ul> </li> <li>Unable to get mongo object <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Server failure</li> <li><b>Message:</b> Unable to process request</li> </ul> </li> </ol>
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## User

URIs relative to **/user**, unless otherwise noted:

Method	HTTP request	Description
POST	<p>/manager</p> <p><b>Request Body:</b> { name: "Vicky", email: "vickyg@mit.edu", password: "xxx", username: "vickyg", org: "Zhift"}</p>	<p>Creates a new manager for the given organization.</p> <p>Username's are unique within an organization</p> <p><b>Response:</b> Manager JSON.</p> <p><b>Success:</b> {_id: AUTOGENERATED, username: "vickyg", name: "Vicky", email: "vickyg@mit.edu", org: "Zhift"}</p> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"><li>1. Username already exists<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Bad Input</li><li>• <b>Message:</b> Cannot create manager: A user in this organization already has this username!</li></ul></li><li>2. Given organization does not exist<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Bad Input</li><li>• <b>Message:</b> Cannot create manager: Organization does not exist!</li></ul></li><li>3. Request is not from a manager of the org<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Invalid permissions</li><li>• <b>Message:</b> You do not have permission to create and add a manager to this organization</li></ul></li><li>4. Unable to create mongo object<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Server failure</li><li>• <b>Message:</b> Unable to process request</li></ul></li></ol>
POST	<p>/employee</p>	<p>Creates a new employee for the given organization.</p>

	<p><b>Request Body:</b> { name: "Vicky", email: "vickyg@mit.edu", password: "xxx", username: "vickyg", org: "Zhift", role: "Cashier"}</p>	<p>Username's are unique within an organization</p> <p><b>Response:</b> Employee JSON.</p> <p><b>Success:</b> {_id: AUTOGENERATED, username: "vickyg", name: "Vicky", email: "vickyg@mit.edu", org: "Zhift", Schedule: &lt;Schedule ID&gt;}</p> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"><li>1. Username already exists<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Bad Input</li><li>• <b>Message:</b> Cannot create employee: A user in this organization already has this username!</li></ul></li><li>2. Given organization does not exist<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Bad Input</li><li>• <b>Message:</b> Cannot create employee: Organization does not exist!</li></ul></li><li>3. Given shift does not exist<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Bad Input</li><li>• <b>Message:</b> Cannot create employee: shift does not exist</li></ul></li><li>4. Request is not from a manager of the org<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Invalid permissions</li><li>• <b>Message:</b> You do not have permission to create and add a employee to this organization</li></ul></li><li>5. Unable to create mongo object<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Server failure</li><li>• <b>Message:</b> Unable to process request</li></ul></li></ol>
GET	/manager/:id	Gets a manager object with given id

	<p><b>Request body:</b></p> <pre>{}</pre>	<p><b>Response:</b> Manager JSON.</p> <p><b>Success:</b></p> <pre>{_id: AUTOGENERATED, username: "vickyg", name: "Vicky" email: "vickyg@mit.edu", org: "Zhift" }</pre> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>1. ID does not exist <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> A manager with the given id does not exist</li> </ul> </li> <li>2. Request is not from a user of the org <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Invalid permissions</li> <li>• <b>Message:</b> You do not have permission to get this manager</li> </ul> </li> <li>3. Unable to get mongo object <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Server failure</li> <li>• <b>Message:</b> Unable to process request</li> </ul> </li> </ol>
GET	<p>/employee/:id</p> <p><b>Request body:</b></p> <pre>{}</pre>	<p>Gets a employee object with given id</p> <p><b>Response:</b> Employee JSON.</p> <p><b>Success:</b></p> <pre>{_id: AUTOGENERATED, username: "vickyg", name: "Vicky" email: "vickyg@mit.edu", org: "Zhift", schedule: &lt;Schedule ID&gt;}</pre> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>1. ID does not exist <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> </ul> </li> </ol>



		<ul style="list-style-type: none"> <li>• <b>Message:</b> An employee with the given id does not exist</li> </ul> <ol style="list-style-type: none"> <li>2. Request is not from a user of the org           <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Invalid permissions</li> <li>• <b>Message:</b> You do not have permission to get this employee</li> </ul> </li> <li>3. Unable to get mongo object           <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Server failure</li> <li>• <b>Message:</b> Unable to process request</li> </ul> </li> </ol>
PUT	/manager/:id  <b>Request Body:</b> {}	Request to change password of manager with given id.  <b>Response:</b> JSON.  <b>Success:</b> {}  <b>Failure:</b> Error JSON  <ol style="list-style-type: none"> <li>1. ID does not exist           <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> A manager with the given id does not exist</li> </ul> </li> <li>2. Request is not from owner or manager           <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Invalid permissions</li> <li>• <b>Message:</b> You do not have permission to edit this manager</li> </ul> </li> <li>3. Unable to get mongo object           <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Server failure</li> <li>• <b>Message:</b> Unable to process request</li> </ul> </li> </ol>
PUT	/employee/:id  <b>Request body:</b> {}	Request to change password of employee with given id.  <b>Response:</b> JSON.  <b>Success:</b> {}

		<p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>ID does not exist <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Bad Input</li> <li><b>Message:</b> An employee with the given id does not exist</li> </ul> </li> <li>Request is not from owner or manager <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Invalid permissions</li> <li><b>Message:</b> You do not have permission to edit this employee</li> </ul> </li> <li>Unable to get mongo object <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Server failure</li> <li><b>Message:</b> Unable to process request</li> </ul> </li> </ol>
GET	/org/:id/manager  <b>Request body:</b> {}	<p>Get all managers associated with the organization of the given id.</p> <p><b>Response:</b> JSON.</p> <p><b>Success:</b>  {managers: [    { _id: AUTOGENERATED,    email: "vickyg@mit.edu",    username: "vickyg",    name: "vicky"    org: "Zhift"},      { _id: AUTOGENERATED,    email: "aren@mit.edu",    username: "aren",    name: "anji"    org: "Zhift"},  ]}}</p> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>Org ID does not exist <ul style="list-style-type: none"> <li><b>Status:</b></li> </ul> </li> </ol>

		<ul style="list-style-type: none"> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> An organization with the given id does not exist</li> </ul> <ol style="list-style-type: none"> <li>2. Request is not manager of organization           <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Invalid permissions</li> <li>• <b>Message:</b> You do not have permission to get managers for this organization</li> </ul> </li> <li>3. Unable to get mongo object           <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Server failure</li> <li>• <b>Message:</b> Unable to process request</li> </ul> </li> </ol>
GET	/org/:id/employee  <b>Request body:</b> {}	<p>Get all employees associated with the organization of the given id.</p> <p><b>Response:</b> JSON.</p> <p><b>Success:</b></p> <pre>{employees: [   {_id: AUTOGENERATED,     email: "vickyg@mit.edu",     username: "vickyg",     name: "vicky"     org: "Zhift",     schedule: &lt;Schedule ID&gt;},    {_id: AUTOGENERATED,     email: "aren@mit.edu",     username: "aren",     name: "anji"     org: "Zhift",     schedule: &lt;Schedule ID&gt;}, ]}</pre> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>1. Org ID does not exist       <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> An organization with the given id does not exist</li> </ul> </li> <li>2. Request is not manager of organization</li> </ol>

		<ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Invalid permissions</li> <li>• <b>Message:</b> You do not have permission to get managers for this organization</li> </ul> <p>3. Unable to get mongo object</p> <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Server failure</li> <li>• <b>Message:</b> Unable to process request</li> </ul>
DELETE	<b>/:id</b>  <b>Request Body:</b> {}	<p>Removes a user from the organization and from the database</p> <p><b>Response:</b> JSON.</p> <p><b>Success:</b>  {} </p> <p><b>Failure:</b>  Error JSON </p> <ol style="list-style-type: none"> <li>1. User ID does not exist <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> An user with the given id does not exist</li> </ul> </li> <li>2. Request is not manager of organization <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Invalid permissions</li> <li>• <b>Message:</b> You do not have permission to remove users for this organization</li> </ul> </li> <li>3. Unable to get mongo object <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Server failure</li> <li>• <b>Message:</b> Unable to process request</li> </ul> </li> </ol>
GET	<b>/sched/:id/</b>	<p>Get all employees associated with a schedule with the given ID</p> <p><b>Response:</b> JSON.</p> <p><b>Success:</b>  {employees: [ { _id: AUTOGENERATED, email: "vickyg@mit.edu", </p>

```
username: "vickyg",  
name: "vicky"  
org: "Zhift",  
schedule: <Schedule ID>},  
  
{_id: AUTOGENERATED,  
email: "aren@mit.edu",  
username: "aren",  
name: "anji"  
org: "Zhift",  
schedule: <Schedule ID>},  
]}
```

**Failure:**  
Error JSON

1. Schedule ID does not exist
  - **Status:**
  - **Name:** Bad Input
  - **Message:** A schedule with the given id does not exist
2. Request is not manager of organization
  - **Status:**
  - **Name:** Invalid permissions
  - **Message:** You do not have permission to get employees of a schedule for this organization
3. Unable to get mongo object
  - **Status:**
  - **Name:** Server failure
  - **Message:** Unable to process request

## Record

URIs relative to **/record**, unless otherwise noted:

Method	HTTP request	Description
POST	<p>/</p> <p><b>Request Body:</b> { schedule:   &lt;ScheduleId&gt;,   content: "Person A traded   shift 1 for Person B's shift   2"} }</p>	<p>Creates a new record</p> <p><b>Response:</b> Record JSON.</p> <p><b>Success:</b> { _id: AUTOGENERATED,   schedule: &lt;Schedule ID&gt;,   content: "Person A traded shift 1 for Person B's   shift 2" }</p> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"><li>1. Schedule does not exist<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Bad Input</li><li>• <b>Message:</b> Cannot create record: Schedule with given id does not exist.</li></ul></li><li>2. Request is not from a user of this organization.<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Invalid permissions</li><li>• <b>Message:</b> You do not have permission to add a record to this schedule</li></ul></li><li>3. Unable to create mongo object<ul style="list-style-type: none"><li>• <b>Status:</b></li><li>• <b>Name:</b> Server failure</li><li>• <b>Message:</b> Unable to process request</li></ul></li></ol>
GET	<p>/:id</p> <p><b>Request Body:</b> { }</p>	<p>Gets a record with given id</p> <p><b>Response:</b> Record JSON.</p> <p><b>Success:</b> { _id: AUTOGENERATED,   schedule: &lt;Schedule ID&gt;,   content: "Person A traded shift 1 for Person B's</p>

		<p>shift 2" }</p> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>Record does not exist <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Bad Input</li> <li><b>Message:</b> Record with given id does not exist.</li> </ul> </li> <li>Request is not from either manager of this org, or user of this schedule. <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Invalid permissions</li> <li><b>Message:</b> You do not have permission to get this record</li> </ul> </li> <li>Unable to get mongo object <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Server failure</li> <li><b>Message:</b> Unable to process request</li> </ul> </li> </ol>
GET	/sched/:sched_id  <b>Request Body:</b> {}	<p>Gets all records associated with a schedule</p> <p><b>Response:</b> JSON.</p> <p><b>Success:</b>  {Records: [    { _id: AUTOGENERATED,    schedule: &lt;Schedule ID&gt;,    content: "Person A traded shift 1 for Person B's shift 2" },     { _id: AUTOGENERATED,    schedule: &lt;Schedule ID&gt;,    content: "Person C traded shift 3 for Person D's shift 4" },  ]} </p> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>Schedule does not exist <ul style="list-style-type: none"> <li><b>Status:</b></li> </ul> </li> </ol>

		<ul style="list-style-type: none"> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> Schedule with given id does not exist.</li> </ul> <ol style="list-style-type: none"> <li>2. Request is not from either manager of this org, or user of this schedule. <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Invalid permissions</li> <li>• <b>Message:</b> You do not have permission to get this record</li> </ul> </li> <li>3. Unable to get mongo object <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Server failure</li> <li>• <b>Message:</b> Unable to process request</li> </ul> </li> </ol>
GET	/org/:id  <b>Request Body:</b> {}	<p>Gets all records associated with an organization</p> <p><b>Response:</b> JSON.</p> <p><b>Success:</b>  {Records: [    { _id: AUTOGENERATED,    schedule: &lt;Schedule ID&gt;,    content: "Person A traded shift 1 for Person B's shift 2" },     { _id: AUTOGENERATED,    schedule: &lt;Schedule ID&gt;,    content: "Person C traded shift 3 for Person D's shift 4" },  ]} </p> <p><b>Failure:</b>  Error JSON</p> <ol style="list-style-type: none"> <li>1. Organization does not exist <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> Organization with given id does not exist.</li> </ul> </li> <li>2. Request is not from either manager of this org. <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Invalid permissions</li> <li>• <b>Message:</b> You do not have</li> </ul> </li> </ol>



		<p>permission to get this record</p> <ol style="list-style-type: none"> <li>Unable to get mongo object <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Server failure</li> <li><b>Message:</b> Unable to process request</li> </ul> </li> </ol>
DELETE	/:id  <b>Request Body:</b> {}	Deletes a record with given id  <b>Response:</b> JSON.  <b>Success:</b> {}  <b>Failure:</b> Error JSON  <ol style="list-style-type: none"> <li>Record does not exist <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Bad Input</li> <li><b>Message:</b> Record with given id does not exist.</li> </ul> </li> <li>Request is not from cron job** <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Invalid permissions</li> <li><b>Message:</b> You do not have permission to remove this record</li> </ul> </li> <li>Unable to remove mongo object <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Server failure</li> <li><b>Message:</b> Unable to process request</li> </ul> </li> </ol>

## Shift

URIs relative to **/shift**, unless otherwise noted:

Method	HTTP request	Description
POST	<p>/template</p> <p><b>Request Body:</b> { dayOfWeek: "Tuesday", start: Time (hr of day), end: Time (hr of day), responsiblePerson: &lt;Employee Id&gt;, schedule: &lt;Schedule Id&gt; }</p>	<p>Creates a new template shift associated with a schedule</p> <p><b>Response:</b> Shift JSON.</p> <p><b>Success:</b> { _id: AUTOGENERATED, dayOfWeek: "Tuesday", start: Time (hr of day), end: Time (hr of day), responsiblePerson: &lt;Employee Id&gt;, schedule: &lt;Schedule Id&gt;}</p> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"><li>Invalid day of week<ul style="list-style-type: none"><li><b>Status:</b></li><li><b>Name:</b> Bad Input</li><li><b>Message:</b> Cannot create shift: Day of week is invalid</li></ul></li><li>Start / End time invalid<ul style="list-style-type: none"><li><b>Status:</b></li><li><b>Name:</b> Bad Input</li><li><b>Message:</b> Cannot create shift: start/end time invalid</li></ul></li><li>Given employee does not exist<ul style="list-style-type: none"><li><b>Status:</b></li><li><b>Name:</b> Bad Input</li><li><b>Message:</b> Cannot create shift: responsible person does not exist</li></ul></li><li>Schedule does not exist<ul style="list-style-type: none"><li><b>Status:</b></li><li><b>Name:</b> Bad Input</li><li><b>Message:</b> Cannot create shift: schedule with given id does not exist</li></ul></li><li>Request is not from a manager of the org<ul style="list-style-type: none"><li><b>Status:</b></li><li><b>Name:</b> Invalid permissions</li></ul></li></ol>

		<ul style="list-style-type: none"> <li>• <b>Message:</b> You do not have permission to create a shift for this schedule</li> </ul> <p>6. Unable to create mongo object</p> <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Server failure</li> <li>• <b>Message:</b> Unable to process request</li> </ul>
POST	<p><b>/actual/:schedule_id</b></p> <p><b>Request Body:</b></p> <pre>{ dayOfWeek: "Tuesday", start: Time (hr of day), end: Time (hr of day), responsiblePerson: &lt;Employee Id&gt;, schedule: &lt;Schedule Id&gt;, dateScheduled: Date }</pre>	<p>Creates a new actual shift associated with a schedule</p> <p><b>Response:</b> Shift JSON.</p> <p><b>Success:</b></p> <pre>{ _id: AUTOGENERATED, dayOfWeek: "Tuesday", start: Time (hr of day), end: Time (hr of day), responsiblePerson: &lt;Employee Id&gt;, schedule: &lt;Schedule Id&gt;, dateScheduled: Date, upForGrabs: False, upForSwap: False}</pre> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>1. Invalid day of week <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> Cannot create shift: Day of week is invalid</li> </ul> </li> <li>2. Start / End time invalid <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> Cannot create shift: start/end time invalid</li> </ul> </li> <li>3. Given employee does not exist <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> Cannot create shift: responsible person does not exist</li> </ul> </li> <li>4. Schedule does not exist</li> </ol>

		<ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> Cannot create shift: schedule with given id does not exist</li> </ul> <p>5. Unable to create mongo object</p> <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Server failure</li> <li>• <b>Message:</b> Unable to process request</li> </ul>
PUT	<p>/putUpForGrabs/:id</p> <p><b>Request Body:</b></p> <pre>{}</pre>	<p>Puts actual shift up for grabs</p> <p><b>Response:</b> Shift JSON.</p> <p><b>Success:</b></p> <pre>{_id: AUTOGENERATED, dayOfWeek: "Tuesday", start: Time (hr of day), end: Time (hr of day), responsiblePerson: &lt;Employee Id&gt;, schedule: &lt;Schedule Id&gt;, dateScheduled: Date, upForGrabs: True, upForSwap: False}</pre> <p><b>Failure:</b></p> <p>Error JSON</p> <ol style="list-style-type: none"> <li>1. Shift ID does not exist <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> No actual shift with ID exists</li> </ul> </li> <li>2. Request is not from owner of shift. <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Invalid permissions</li> <li>• <b>Message:</b> You do not have permission to put this shift up for grabs.</li> </ul> </li> <li>3. Unable to edit mongo object <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Server failure</li> <li>• <b>Message:</b> Unable to process request</li> </ul> </li> </ol>

GET	/upForGrabs/:schedule_id	<p>Getting all actual shifts associated with a schedule that is up for grabs</p> <p>note: can only be done on actual shifts</p>
PUT	<p>/claimShift/:id</p> <p><b>Request Body:</b> { }</p>	<p>Claims an actual shift that is up for grabs for the user who is currently logged in</p> <p><b>Response:</b> Shift JSON.</p> <p><b>Success:</b> { _id: AUTOGENERATED, dayOfWeek: "Tuesday", start: Time (hr of day), end: Time (hr of day), responsiblePerson: &lt;Employee Id&gt;, schedule: &lt;Schedule Id&gt;, dateScheduled: Date, upForGrabs: True, upForSwap: False}</p> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>Shift ID does not exist <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Bad Input</li> <li><b>Message:</b> No actual shift with ID exists</li> </ul> </li> <li>Shift is not up for grabs <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Bad Input</li> <li><b>Message:</b> This shift is not up for grabs</li> </ul> </li> <li>Request is not from employee of the same schedule. <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Invalid permissions</li> <li><b>Message:</b> You do not have permission to grab this shift.</li> </ul> </li> <li>Unable to edit mongo object <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Server failure</li> <li><b>Message:</b> Unable to process request</li> </ul> </li> </ol>

## Swap

URLs relative to **/swap**, unless otherwise noted:

Method	HTTP request	Description
POST	<p>/:shift_id</p> <p><b>Request Body:</b></p> <pre>{}</pre>	<p>Creates a swap object for the given shift id</p> <p>Note: shift must be an actual shift</p> <p><b>Response:</b> Swap JSON.</p> <p><b>Success:</b></p> <pre>{ shiftUpForSwap: &lt;Shift Id&gt;   shiftOfferedInReturn: Null,   Schedule: &lt;ScheduleId&gt; }</pre> <p><b>Failure:</b></p> <p>Error JSON</p> <ol style="list-style-type: none"><li>Shift ID does not exist<ul style="list-style-type: none"><li><b>Status:</b></li><li><b>Name:</b> Bad Input</li><li><b>Message:</b> Cannot create swap: Shift ID does not exist</li></ul></li><li>Shift is not an actual shift<ul style="list-style-type: none"><li><b>Status:</b></li><li><b>Name:</b> Bad Input</li><li><b>Message:</b> Cannot create swap: Shift is not an actual shift</li></ul></li><li>Request is not from a owner of the shift<ul style="list-style-type: none"><li><b>Status:</b></li><li><b>Name:</b> Invalid permissions</li><li><b>Message:</b> You do not have permission to create a swap for this shift</li></ul></li><li>Unable to create mongo object<ul style="list-style-type: none"><li><b>Status:</b></li><li><b>Name:</b> Server failure</li><li><b>Message:</b> Unable to process request</li></ul></li></ol>
GET	<p>/:schedule_id</p> <p><b>Request Body:</b></p> <pre>{}</pre>	<p>Getting all non-responded swap objects associated with a schedule</p> <p><b>Response:</b> Swap JSON.</p> <p><b>Success:</b></p>

		<pre>{Swaps: [   { shiftUpForSwap: &lt;Shift Id&gt;     shiftOfferedInReturn: null,     Schedule: &lt;ScheduleId&gt;   },   { shiftUpForSwap: &lt;Shift Id&gt;     shiftOfferedInReturn: Null,     Schedule: &lt;ScheduleId&gt;   } ]}</pre> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>Schedule ID does not exist       <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Bad Input</li> <li><b>Message:</b> Schedule ID does not exist</li> </ul> </li> <li>Request is not from a user of this schedule       <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Invalid permissions</li> <li><b>Message:</b> You do not have permission to create a swap for this shift</li> </ul> </li> <li>Unable to create mongo object       <ul style="list-style-type: none"> <li><b>Status:</b></li> <li><b>Name:</b> Server failure</li> <li><b>Message:</b> Unable to process request</li> </ul> </li> </ol>
PUT	/offerSwap  <b>Request Body:</b>  <pre>{userRequesting:   &lt;User ID&gt;,   SwapId: &lt;swap ID&gt;,   ShiftOffered: &lt;Shift ID&gt;}</pre>	Another person offers a shift for this swap  <b>Response:</b> Swap JSON.  <b>Success:</b> <pre>{ shiftUpForSwap: &lt;Shift Id&gt;   shiftOfferedInReturn: &lt;Shift Id&gt;,   Schedule: &lt;ScheduleId&gt; }</pre> <p><b>Failure:</b> Error JSON</p> <ol style="list-style-type: none"> <li>Shift Offered ID does not exist       <ul style="list-style-type: none"> <li><b>Status:</b></li> </ul> </li> </ol>

		<ul style="list-style-type: none"> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> Shift ID does not exist</li> </ul> <p>2. User Requested ID does not exist</p> <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> User requested ID does not exist</li> </ul> <p>3. Swap ID does not exist</p> <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> Swap ID does not exist</li> </ul> <p>4. User is not owner of shift offered</p> <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Invalid permissions</li> <li>• <b>Message:</b> User cannot offer to swap given shift</li> </ul> <p>5. Request is not from a user of the same schedule</p> <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Invalid permissions</li> <li>• <b>Message:</b> You do not have permission to swap for this shift</li> </ul> <p>6. Unable to create mongo object</p> <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Server failure</li> <li>• <b>Message:</b> Unable to process request</li> </ul>
DELETE	/:swap_id  <b>Request Body:</b> {}	Deletes the swap object with given ID  <b>Response:</b> JSON.  <b>Success:</b> {}  <b>Failure:</b> Error JSON  <p>1. Swap ID does not exist</p> <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Bad Input</li> <li>• <b>Message:</b> Swap ID does not exist</li> </ul> <p>2. Unable to remove mongo object</p> <ul style="list-style-type: none"> <li>• <b>Status:</b></li> <li>• <b>Name:</b> Server failure</li> <li>• <b>Message:</b> Unable to process request</li> </ul>



