



CSC 4309 Enterprise Cloud & Mobile Application Architecture, Design and Development

Project Milestone 2

Sabor Mohammed El Mehdi

Supervised by: Dr. Iraqi

FALL 2023

Middlewares :

AuthenticateJWT :

verifyJWT token if user is authenticated

```
const jwt = require('jsonwebtoken');

Comment Code
function authenticateJWT(req, res, next) {
  const token = req.headers.authorization.split(" ")[1];

  if (token) {
    jwt.verify(token, 'YOUR_SECRET_KEY', (err, user) => {
      if (err) {
        return res.sendStatus(403);
      }
      req.user = user;
      next();
    });
  } else {
    res.sendStatus(401);
  }
}

module.exports = authenticateJWT;
```

isParentOfRoom

Verify if the user is the parent of the room he wants to do an action in

```
Comment Code
function isParentOfRoom(req, res, next) {
  const parentId = req.user.parentId;
  const roomId = req.params.roomId || req.body.roomId;

  prisma.room.findFirst({
    where: {
      id: roomId,
      parentId: parentId
    }
  }).then(room => {
    if (!room) {
      return res.status(403).json({ error: 'Access denied. Parent not owner of the room.' });
    }
    next();
  });
}
```

EnsureChildProfile

Ensure that the child have a profile and can perform actions:

```
comment code
async function ensureChildProfile(req, res, next) {
  try {
    const childId = req.headers['x-child-id'] || req.body.childId || req.query.childId;

    if (!childId) {
      return res.status(400).json({ error: 'Child ID is required' });
    }

    const childProfile = await prisma.child.findUnique({
      where: { id: parseInt(childId) },
    });

    if (!childProfile) {
      return res.status(404).json({ error: 'Child profile not found' });
    }

    req.child = childProfile;
    next();
  } catch (error) {
    console.error(error);
    res.status(500).json({ error: error.message });
  }
}
```

isChildofRoom:

Verify if the user is the child of the room he wants to do an action in

```
async function isChildOfRoom(req, res, next) {
  const childIdFromHeader = req.headers['x-child-id'];
  let childId;
  let roomId = parseInt(req.params.roomId);

  if (childIdFromHeader) {
    childId = parseInt(childIdFromHeader);
  } else {
    return res.status(401).json({ error: 'Child ID required in x-child-id header' });
  }

  if (req.params.taskId) {
    const taskId = parseInt(req.params.taskId);
    const task = await prisma.task.findUnique({
      where: { id: taskId },
      select: { roomId: true }
    });
    if (task) roomId = task.roomId;
    else return res.status(404).json({ error: 'Task not found.' });
  }

  if (!roomId) {
    return res.status(400).json({ error: 'Room ID or Task ID must be provided.' });
  }

  try {
    console.log(`Checking access for child ID: ${childId}, Room ID: ${roomId}`);
    const child = await prisma.child.findFirst({
      where: {
        id: childId,
        roomId: roomId
      }
    });
    console.log('Query result:', child);

    if (!child) {
      return res.status(403).json({ error: 'Access denied. Child not part of the room.' });
    }

    next();
  } catch (err) {
    console.error(err);
    res.status(500).json({ error: 'Internal server error.' });
  }
}
```

belongsToRoom:

Ensure that the user is a member of the specified room. Additionally, consider the 'roomId', 'taskId', and 'rewardId' parameters, and derive the 'roomId' from the provided 'taskId' or 'rewardId' when necessary.

```
async function belongsToRoom(req, res, next) {
  const token = req.headers['authorization']?.split(' ')[1];
  const childIdFromHeader = req.headers['x-child-id'];
  let userId;
  let roomId = parseInt(req.params.roomId);

  if (token) {
    try {
      const decodedToken = jwt.verify(token, 'YOUR_SECRET_KEY');
      if (decodedToken.parentId) {
        userId = decodedToken.parentId;
      } else {
        return res.status(403).json({ error: 'Access denied. Not a parent.' });
      }
    } catch (error) {
      return res.status(401).json({ error: 'Invalid token' });
    }
  } else if (childIdFromHeader) {
    userId = parseInt(childIdFromHeader);
    console.log(userId);
  } else {
    return res.status(401).json({ error: 'Authentication required' });
  }

  if (req.params.taskId) {
    const taskId = parseInt(req.params.taskId);
    const task = await prisma.task.findUnique({
      where: { id: taskId },
      select: { roomId: true }
    });
    if (task) roomId = task.roomId;
    else return res.status(404).json({ error: 'Task not found.' });
  }

  if (req.params.rewardId) {
    const rewardId = parseInt(req.params.rewardId);
    const reward = await prisma.reward.findUnique({
      where: { id: rewardId },

```

```
      select: { roomId: true }
    });
    if (reward) roomId = reward.roomId;
    else return res.status(404).json({ error: 'Reward not found.' });
  }

  if (!roomId) {
    return res.status(400).json({ error: 'Room ID or Task ID must be provided.' });
  }

  try {
    if (token) {
      // User is a parent, check if parent is part of the room
      const room = await prisma.room.findFirst({
        where: {
          id: roomId,
          parentId: userId
        }
      });
      if (!room) {
        return res.status(403).json({ error: 'Access denied. Parent not owner of the room.' });
      }
    } else {
      // User is a child, check if child is part of the room
      console.log(`Checking access for child ID: ${userId}, Room ID: ${roomId}`);
      const child = await prisma.child.findFirst({
        where: {
          id: parseInt(userId),
          roomId: roomId
        }
      });
      console.log('Query result:', child);
    }
  }
}
```

```

    if (!child) {
      return res.status(403).json({ error: 'Access denied. Child not part of the room.' });
    }
  }

  next();
} catch (err) {
  console.error(err);
  res.status(500).json({ error: 'Internal server error.' });
}
}
}

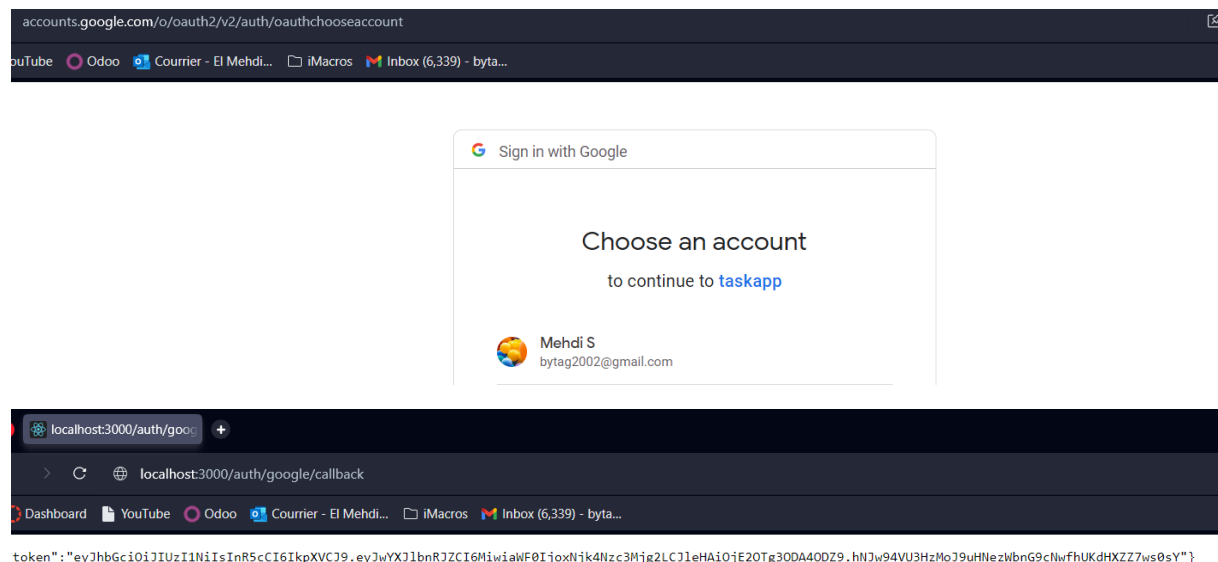
```

Testing of functionalities:

Parent functionalities:

Account Management: Account Creation and Login Procedures

Using google library, so no real need for registration, for login it creates a google token which authenticate him then create our JWT token.



```

const GoogleStrategy = require('passport-google-oauth20').Strategy;
const jwt = require('jsonwebtoken');
const { PrismaClient } = require('@prisma/client');
const prisma = new PrismaClient();
const passport = require('passport');

passport.use(new GoogleStrategy({
  clientId: '697839643431-p9s1jmrn11v7ump26mi60mf76jmao59g.apps.googleusercontent.com',
  clientSecret: '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',
  callbackURL: 'http://localhost:3000/auth/google/callback'
}, async (accessToken, refreshToken, profile, done) => {
  // Check if parent exists in DB
  let parent = await prisma.parent.findUnique({ where: { email: profile.emails[0].value } });

  if (!parent) {
    // If not, create a new Parent entry
    parent = await prisma.parent.create({
      data: {
        email: profile.emails[0].value,
        name: profile.displayName,
      }
    });
  }

  // Generate a JWT token for the parent
  const token = jwt.sign({ parentId: parent.id }, 'YOUR_SECRET_KEY', { expiresIn: '1h' });

  return done(null, { parent, token });
}));

```

```

const express = require('express');
const passport = require('passport');
const router = express.Router();

// Route for Google authentication
router.get('/google',
  passport.authenticate('google', { scope: ['profile', 'email'] ,
    session: false}));

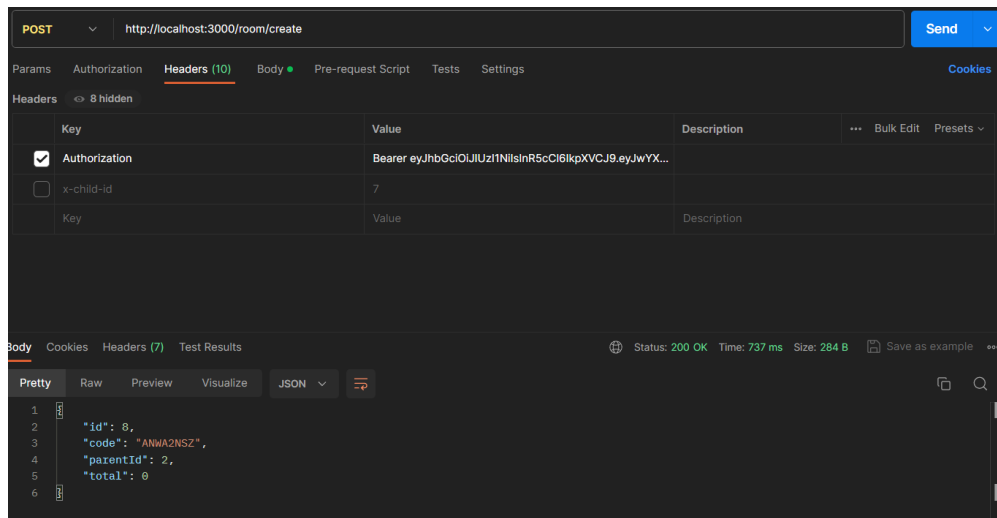
// Callback route after successful Google authentication
router.get('/google/callback',
  passport.authenticate('google', { failureRedirect: '/' ,
    session: false}),
  (req, res) => {
    // Successful authentication, send JWT token.
    res.json({ token: req.user.token });
  });

module.exports = router;

```

Room Management: Creation, Invitation, and Code Generation for Child/Parent Access

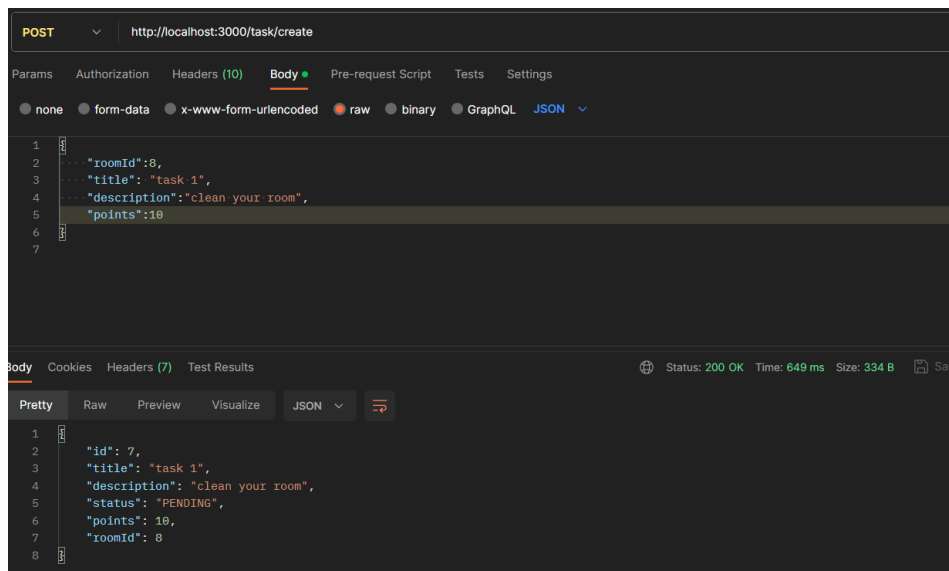
Here the parent can create a room which automatically create a code and this code is used for joining the room if its inputted you can join the room as a child.



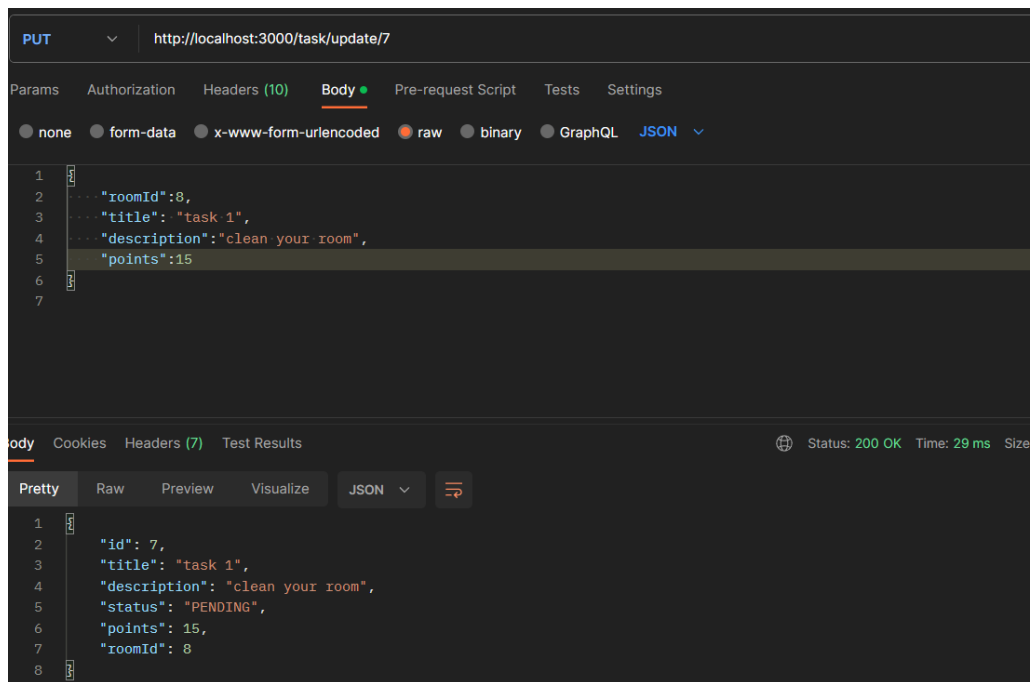
Task Management: CRUD Operations and Daily Reset Mechanism

Fundamental CRUD operations are in place, with an automatic reset feature that reverts the status of a task to 'pending' at midnight.

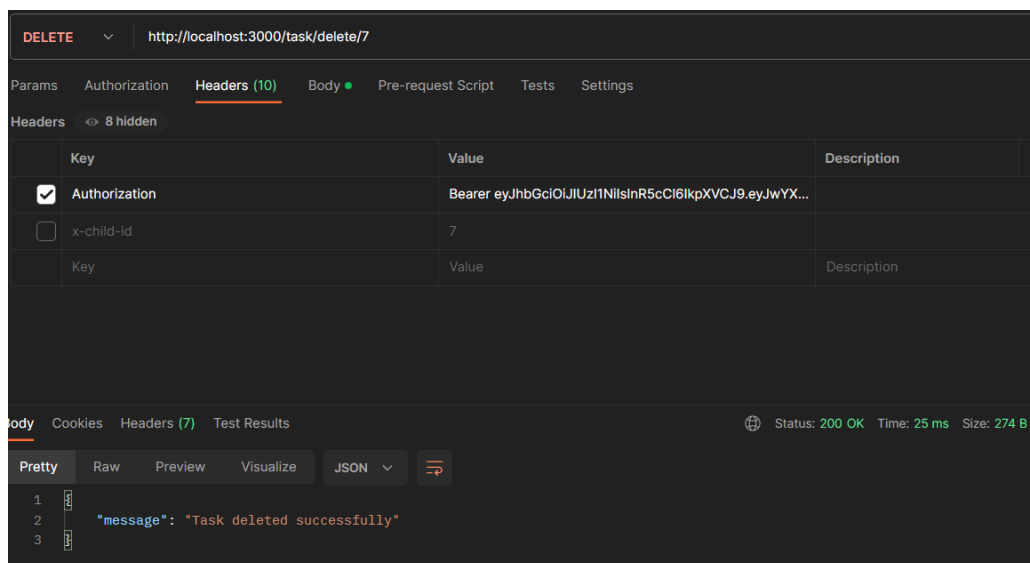
Create a task:



Update a task:

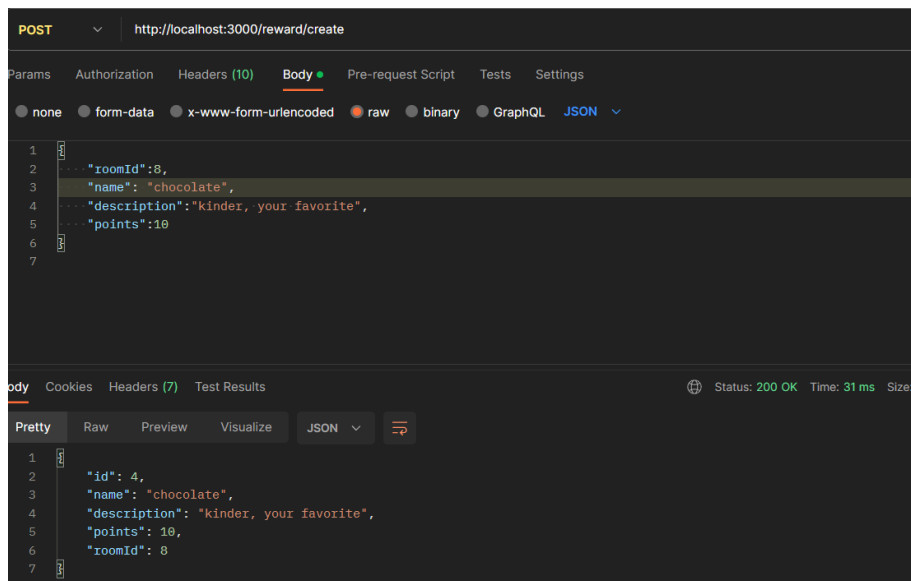


Delete task:

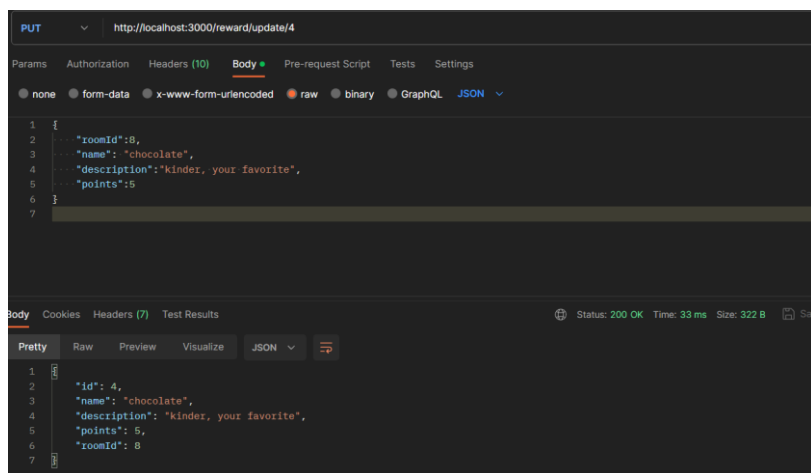


Reward Management: CRUD Operations for Child Incentives

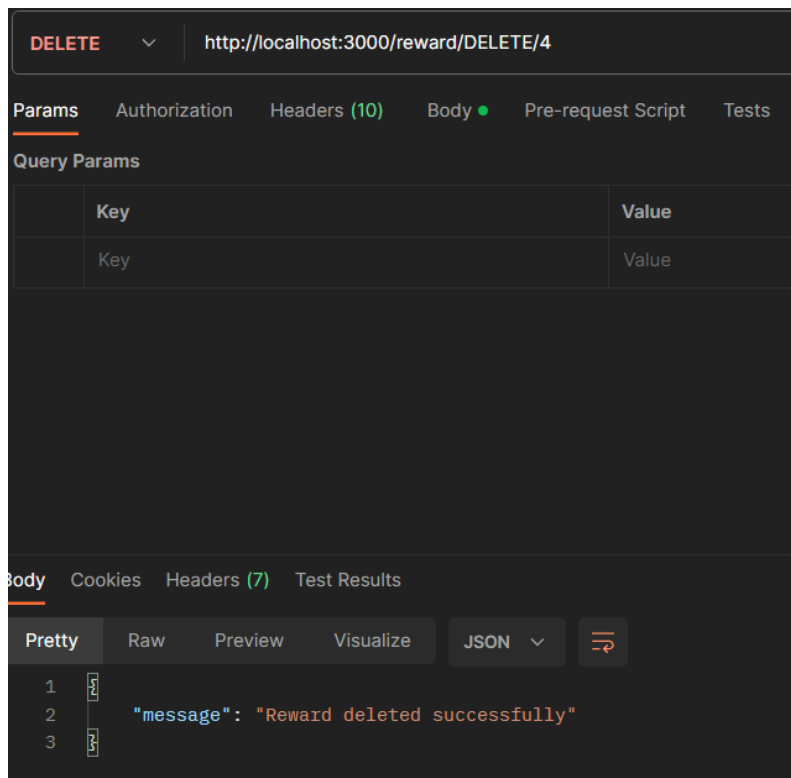
Create a reward/prize:



Update reward:

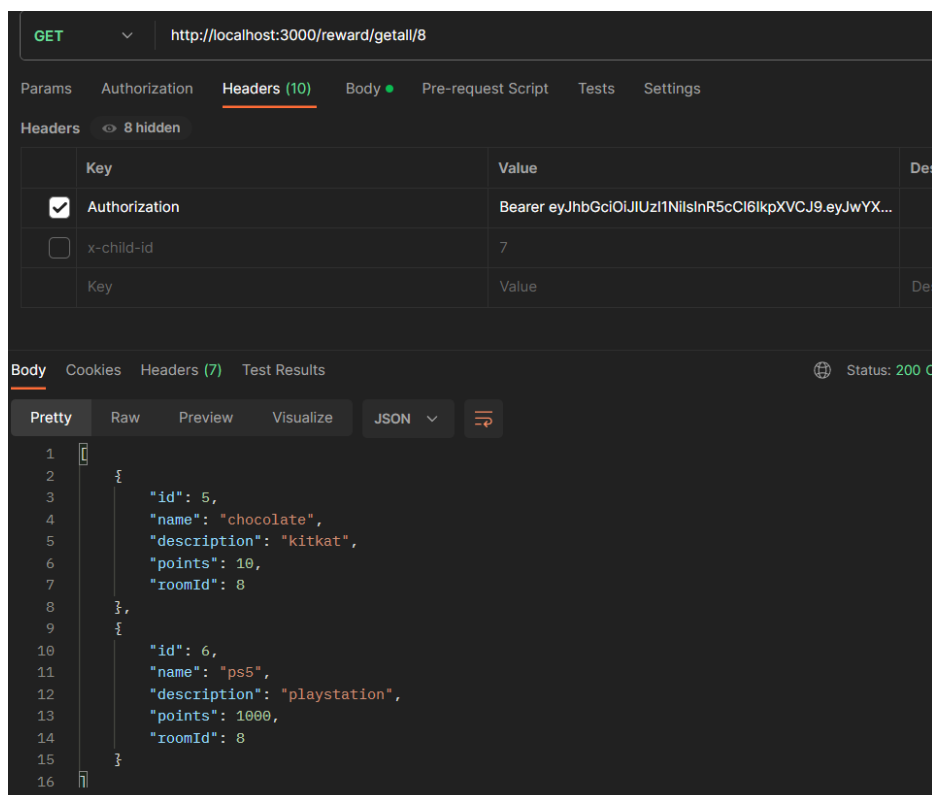


Delete reward:



Monitoring Activities: Overseeing Child Tasks and Rewards

Get all rewards for a room



Get all tasks for a room:

GET <http://localhost:3000/task/getall/8>

Params Authorization **Headers (10)** Body Pre-request Script Tests Settings

Headers 8 hidden

Key	Value
<input checked="" type="checkbox"/> Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYX...
<input type="checkbox"/> x-child-id	7
Key	Value

Body Cookies Headers (7) Test Results Status: 200 OK

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": 8,
4     "title": "task 1",
5     "description": "do your homework",
6     "status": "PENDING",
7     "points": 20,
8     "roomId": 8
9   },
10  {
11    "id": 9,
12    "title": "task 2",
13    "description": "make your bed",
14    "status": "PENDING",
15    "points": 20,
16    "roomId": 8
17  }
18 }
```

A parent shall be able to view the status and history of their child's tasks.

GET <http://localhost:3000/task/getall/8>

Params Authorization **Headers (10)** Body Pre-request Script Tests Settings

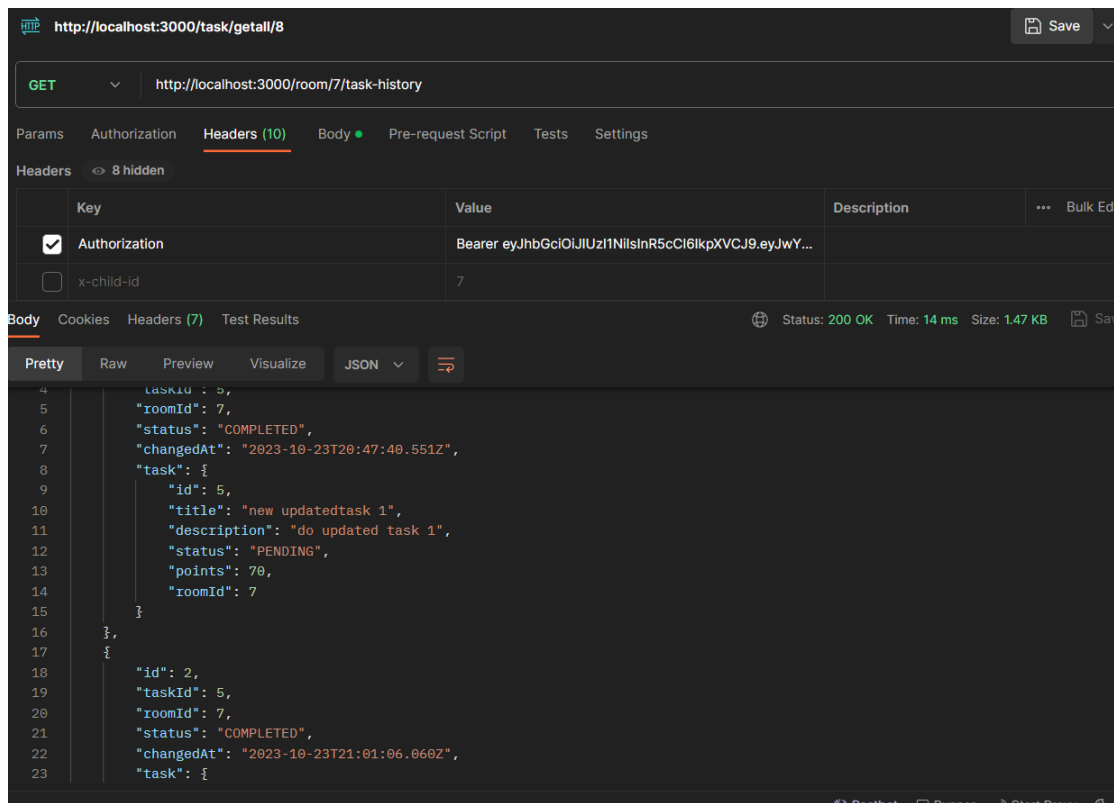
Headers 8 hidden

Key	Value	Description	...	Bulk E
<input checked="" type="checkbox"/> Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYX...			
<input type="checkbox"/> x-child-id	7			
Key	Value	Description		

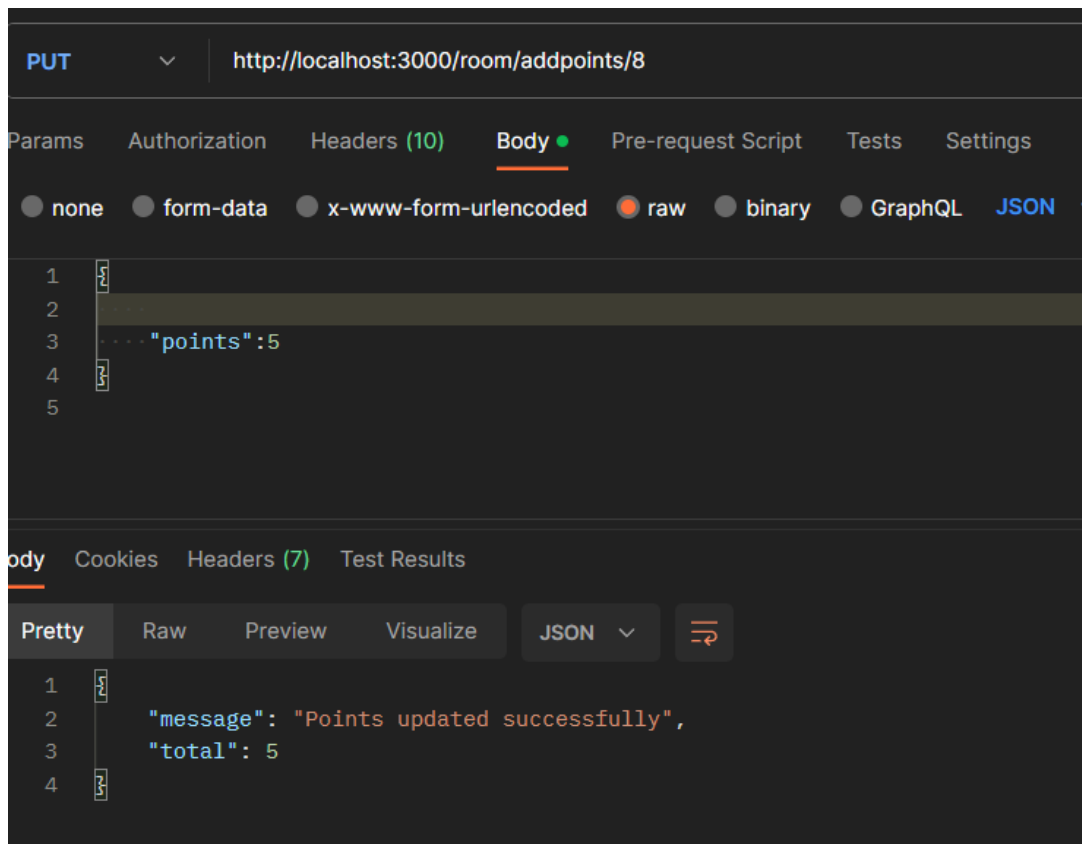
Body Cookies Headers (7) Test Results Status: 200 OK Time: 14 ms Size: 438 B Save

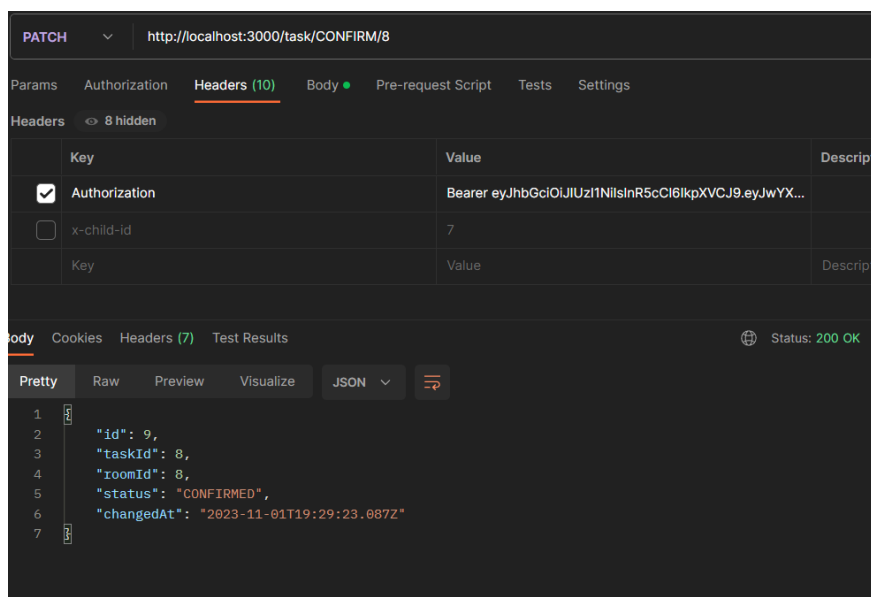
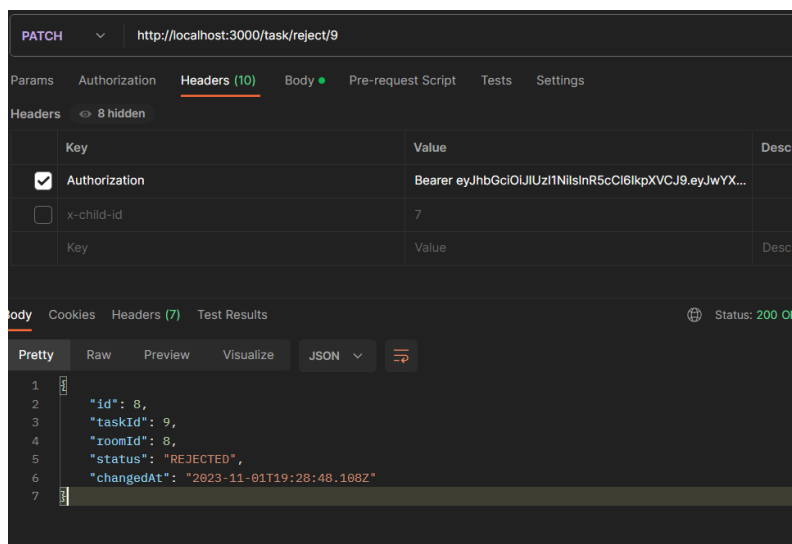
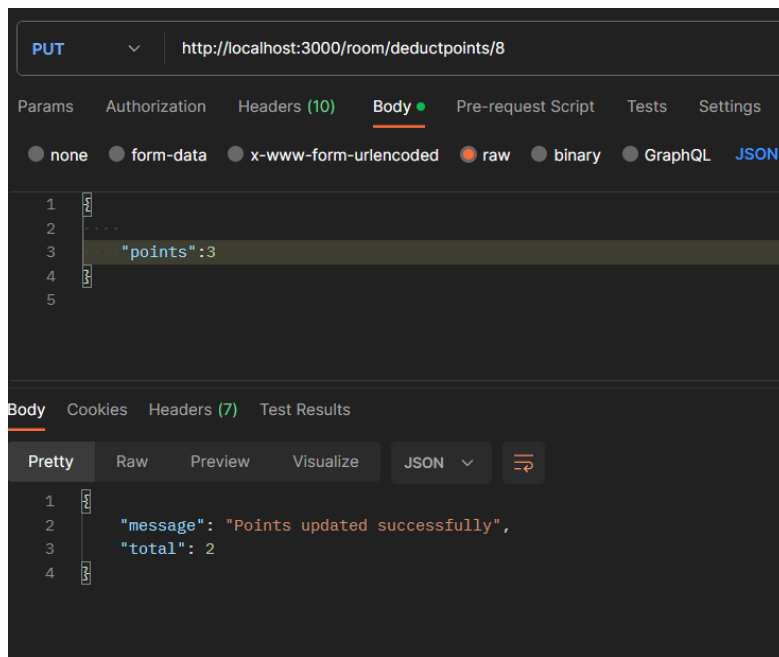
Pretty Raw Preview Visualize JSON

```
3   {
4     "id": 9,
5     "title": "task 2",
6     "description": "make your bed",
7     "status": "PENDING",
8     "points": 20,
9     "roomId": 8
10  },
11  {
12    "id": 8,
13    "title": "task 1",
14    "description": "do your homework",
15    "status": "COMPLETED",
16    "points": 20,
17    "roomId": 8
18  }
19 }
```



Points Management: Assigning, Adjusting, Rejecting and Confirming Child Points





GET http://localhost:3000/task/GETALL/8

Params Authorization Headers (10) Body Pre-request Script Tests Settings

Headers 8 hidden

	Key	Value	Description
<input checked="" type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYX...	
<input type="checkbox"/>	x-child-id	7	
	Key	Value	Description

Body Cookies Headers (7) Test Results Status: 200 OK Time: 8

Pretty Raw Preview Visualize JSON

```
1 {
2   {
3     "id": 9,
4     "title": "task 2",
5     "description": "make your bed",
6     "status": "REJECTED",
7     "points": 20,
8     "roomId": 8
9   },
10  {
11    "id": 8,
12    "title": "task 1",
13    "description": "do your homework",
14    "status": "CONFIRMED",
15    "points": 20,
16    "roomId": 8
17  }
```

Statistics: A parent shall be able to access detailed statistics for each child.

GET http://localhost:3000/ROOM/7/reward-statistics

Params Authorization Headers (10) Body Pre-request Script Tests Settings

Headers 8 hidden

	Key	Value	Description
<input checked="" type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYX...	
<input type="checkbox"/>	x-child-id	5	
	Key	Value	Description

Body Cookies Headers (7) Test Results Status: 200 OK Time: 8

Pretty Raw Preview Visualize JSON

```
1 {
2   "totalRewards": 1,
3   "rewardsClaimed": 3,
4   "averagePointsPerReward": 8,
5   "mostClaimedReward": "reward kitkat"
6 }
```

GET http://localhost:3000/ROOM/7/task-statistics

Params Authorization Headers (10) Body ● Pre-request Script Tests Settings

Headers 8 hidden

	Key	Value	Description
<input checked="" type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYX...	
<input type="checkbox"/>	x-child-id	5	
	Key	Value	Description

Body Cookies Headers (7) Test Results Status: 200 OK Time:

Pretty Raw Preview Visualize JSON ↕

```
1 {
2   "totalTasks": 1,
3   "tasksConfirmed": 2,
4   "tasksPending": -1,
5   "averageCompletionTime": 336087,
6   "mostCommonTask": "new updatedtask 1",
7   "latestCompletedTask": "new updatedtask 1"
8 }
```

Communications and Safety Features: Messaging

GET http://localhost:3000/chat/get/7

Params Authorization Headers (10) Body ● Pre-request Script Tests Settings

Headers 8 hidden

	Key	Value	Description
<input checked="" type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYX...	
<input type="checkbox"/>	x-child-id	5	
	Key	Value	Description

Body Cookies Headers (7) Test Results Status: 200 OK Time: 10 ms

Pretty Raw Preview Visualize JSON ↕

```
137 },
138 {
139   "id": 11,
140   "text": "hwr",
141   "roomId": 7,
142   "parentId": null,
143   "childId": 5,
144   "createdAt": "2023-11-02T19:47:18.627Z",
145   "parent": null,
146   "child": {
147     "id": 5,
148     "name": "adnan",
149     "roomId": 7
150   }
151 }
152 }
```

POST

http://localhost:3000/chat/send/7

Params

Authorization

Headers (10)

Body

Pre-request Script

Tests

Settings

none

form-data

x-www-form-urlencoded

raw

binary

GraphQL

JSON

1

2

3

4

5

```
{
  "text": "good job"
}
```

Body

Cookies

Headers (7)

Test Results

Pretty

Raw

Preview

Visualize

JSON

1

2

3

4

5

6

7

8

```
{
  "id": 12,
  "text": "good job",
  "roomId": 7,
  "parentId": 2,
  "childId": null,
  "createdAt": "2023-11-02T19:49:55.085Z"
}
```


Child functionalities

Room Joining Process for Children

The screenshot displays a REST client interface for a POST request to `http://localhost:3000/ROOM/join`. The request body is a JSON object with a `code` property set to `"1TA64KGQ"`. The response is also in JSON format, showing a nested structure with room and child information.

Request:

```
{
  "code": "1TA64KGQ"
}
```

Response:

```
{
  "room": {
    "id": 7,
    "code": "1TA64KGQ",
    "parentId": 2,
    "total": 150,
    "child": null
  },
  "child": {
    "id": 5,
    "name": "adnan",
    "roomId": 7
  }
}
```

Task Interaction: Viewing and Confirming Completion

GET

http://localhost:3000/task/GETALL/8

Params

Authorization

Headers (10)

Body

Pre-request Script

Tests

Settings

Headers

8 hidden

	Key	Value	Description	...	Bulk
<input type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYX...			
<input checked="" type="checkbox"/>	x-child-id	7			
	Key	Value	Description		

body

Cookies

Headers (7)

Test Results

Status: 200 OK

Time: 113 ms

Size: 439 B

Save

Pretty

Raw

Preview

Visualize

JSON

```
1  [
2    {
3      "id": 9,
4      "title": "task 2",
5      "description": "make your bed",
6      "status": "REJECTED",
7      "points": 20,
8      "roomId": 8
9    },
10   {
11     "id": 8,
12     "title": "task 1",
13     "description": "do your homework",
14     "status": "CONFIRMED",
15     "points": 20,
16     "roomId": 8
17   }
18 ]
```

GET

▼

http://localhost:3000/task/getall/7

ParamsAuthorizationHeaders (10)Body ●Pre-request ScriptTestsSetting

Headers

8 hidden

	Key	Value
<input type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIs
<input checked="" type="checkbox"/>	x-child-id	5
	Key	Value

BodyCookiesHeaders (7)Test Results

PrettyRawPreviewVisualizeJSON ▼

```
1  [
2    {
3      "id": 5,
4      "title": "new updatedtask 1",
5      "description": "do updated task 1",
6      "status": "PENDING",
7      "points": 70,
8      "roomId": 7
9    }
10 ]
```

PATCH

http://localhost:3000/task/COMPLETE/5

Params

Authorization

Headers (10)

Body

Pre-request Script

Tests

Headers

8 hidden

	Key	Value
<input type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIU
<input checked="" type="checkbox"/>	x-child-id	5
	Key	Value

Body

Cookies

Headers (7)

Test Results

Pretty

Raw

Preview

Visualize

JSON

1

2

3

4

5

6

7

{

"id": 10,

"taskId": 5,

"roomId": 7,

"status": "COMPLETED",

"changedAt": "2023-11-01T19:44:35.769Z"

}

Points

System: Tracking points

GET

▼

http://localhost:3000/room/get/7

Params

Authorization

Headers (10)

Body ●

Pre-request Script

Test Results

Headers

8 hidden

	Key	Value
<input type="checkbox"/>	Authorization	Bearer eyJhbG...
<input checked="" type="checkbox"/>	x-child-id	5
	Key	Value

Body

Cookies

Headers (7)

Test Results

Pretty

Raw

Preview

Visualize

JSON ▼

```
1  {
2    "id": 7,
3    "code": "1TA64KGQ",
4    "parentId": 2,
5    "total": 150,
6    "child": {
7      "id": 5,
8      "name": "adnan",
9      "roomId": 7
10   }
11 }
```

Rewards Engagement: Viewing and Claiming Prizes

GET ⌵ <http://localhost:3000/REWARD/getALL/7>

Params Authorization **Headers (10)** Body ● Pre-request Script Tests Settings

Headers 👁 8 hidden

	Key	Value
<input type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYX
<input checked="" type="checkbox"/>	x-child-id	5
	Key	Value

body Cookies Headers (7) Test Results 🌐 Stat

Pretty Raw Preview Visualize JSON ⌵ ⇌

```
1 [
2   {
3     "id": 3,
4     "name": "reward kitkat",
5     "description": "little gift for u chocolate",
6     "points": 8,
7     "roomId": 7
8   }
9 ]
```

POST

▼

http://localhost:3000/REWARD/CLAIM/3

ParamsAuthorizationHeaders (10)Body ●Pre-request ScriptTestsSet

Headers

8 hidden

	Key	Value
<input type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1
<input checked="" type="checkbox"/>	x-child-id	5
	Key	Value

BodyCookiesHeaders (7)Test Results

PrettyRawPreviewVisualizeJSON ▼

1

2

3

4

5

6

{

"id": 3,

"rewardId": 3,

"roomId": 7,

"claimedAt": "2023-11-01T19:46:34.797Z"

}

Performance and Progress: Accessing Task and Reward History and Statistics

GET ▼ http://localhost:3000/ROOM/7/task-history

Params Authorization **Headers (10)** Body ● Pre-request Script Tests Settings

Headers 👁 8 hidden

	Key	Value
<input type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpX
<input checked="" type="checkbox"/>	x-child-id	5
	Key	Value

Body Cookies Headers (7) Test Results

Pretty Raw Preview Visualize JSON ▼ ⇌

```
8   "task": {
9     "id": 5,
10    "title": "new updatedtask 1",
11    "description": "do updated task 1",
12    "status": "COMPLETED",
13    "points": 70,
14    "roomId": 7
15  },
16  },
17  {
18    "id": 2,
19    "taskId": 5,
20    "roomId": 7,
21    "status": "COMPLETED",
22    "changedAt": "2023-10-23T21:01:06.060Z",
23    "task": {
```


GET

▼

http://localhost:3000/ROOM/7/claim-history

Params

Authorization

Headers (10)

Body ●

Pre-request Script

Tests

Settings

Headers

8 hidden

	Key	Value	Description
<input type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYX...	
<input checked="" type="checkbox"/>	x-child-id	5	
	Key	Value	Description

Body

Cookies

Headers (7)

Test Results

⌚

Status: 200

Pretty

Raw

Preview

Visualize

JSON ▼

≡

```
4       "rewardId": 3,
5       "roomId": 7,
6       "claimedAt": "2023-10-23T20:01:36.657Z",
7       "reward": {
8         "id": 3,
9         "name": "reward kitkat",
10        "description": "little gift for u chocolate",
11        "points": 8,
12        "roomId": 7
13      }
14    },
15    {
16      "id": 2,
17      "rewardId": 3,
18      "roomId": 7,
19      "claimedAt": "2023-10-23T20:02:47.183Z",
20      "name": "reward kitkat",
21      "description": "little gift for u chocolate",
22      "points": 8,
23      "roomId": 7
24    }
25  ]
26}
```

GET

▼

http://localhost:3000/ROOM/7/reward-statistics

ParamsAuthorizationHeaders (10)Body ●Pre-request ScriptTestsSettings

Headers

8 hidden

	Key	Value
<input type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6Ikp
<input checked="" type="checkbox"/>	x-child-id	5
	Key	Value

BodyCookiesHeaders (7)Test Results

PrettyRawPreviewVisualizeJSON ▼

```
1  {
2    "totalRewards": 1,
3    "rewardsClaimed": 3,
4    "averagePointsPerReward": 8,
5    "mostClaimedReward": "reward kitkat"
6  }
```

GET

▼

http://localhost:3000/ROOM/7/task-statistics

ParamsAuthorizationHeaders (10)Body ●Pre-request ScriptTestsSettings

Headers

8 hidden

	Key	Value
<input type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVC
<input checked="" type="checkbox"/>	x-child-id	5
	Key	Value

bodyCookiesHeaders (7)Test Results

PrettyRawPreviewVisualizeJSON ▼

1

2

3

4

5

6

7

8

```
{
  "totalTasks": 1,
  "tasksConfirmed": 2,
  "tasksPending": -1,
  "averageCompletionTime": 336087,
  "mostCommonTask": "new updatedtask 1",
  "latestCompletedTask": "new updatedtask 1"
}
```

Parent-Child Communications: Messaging Functionalities

GET ▼ http://localhost:3000/chat/get/7

Params Authorization **Headers (10)** Body ● Pre-request Script Tests Settings

Headers 👁 8 hidden

	Key	Value	Description
<input type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJwYX...	
<input checked="" type="checkbox"/>	x-child-id	5	
	Key	Value	Description

Body Cookies Headers (7) Test Results 🌐 Status: 200 OK Time

Pretty Raw Preview Visualize JSON ▼ ≡

```
1  [
2    {
3      "id": 1,
4      "text": "hello",
5      "roomId": 7,
6      "parentId": null,
7      "childId": 5,
8      "createdAt": "2023-11-02T16:28:28.579Z",
9      "parent": null,
10     "child": {
11       "id": 5,
12       "name": "adnan",
13       "roomId": 7
14     }
15   },
16   {
```

POST

▼

http://localhost:3000/chat/SEND/7

Params

Authorization

Headers (10)

Body ●

Pre-request Script

Tests

Settings

☐ none

☐ form-data

☐ x-www-form-urlencoded

☒ raw

☐ binary

☐ GraphQL

JSON ▼

1

}

2

...

3

"text": "hwr"

4

}

5

Body

Cookies

Headers (7)

Test Results

Pretty

Raw

Preview

Visualize

JSON ▼

≡

137

}

138

{

139

"id": 11,

140

"text": "hwr",

141

"roomId": 7,

142

"parentId": null,

143

"childId": 5,

144

"createdAt": "2023-11-02T19:47:18.627Z",

145

"parent": null,

146

"child": {

147

"id": 5,

148

"name": "adnan",

149

"roomId": 7

150

}

151

}

152

}