

API Design

Team:

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Payload Definitions:

Designer

```
{“name” : “professorHeineman”,  
  “emailAddress”: “heineman@wpi.edu”,  
  “listOfProject” : []}
```

Project

```
{“name” : “ninja-robot”,  
  “story” : “description...”,  
  “owner” : Designer,  
  “type” : “research”,  
  “active” : True,  
  “launched” : True,  
  “deadline” : “aDate”,  
  “Pledges” : [  
    {“pledge” : Pledge},  
    {“pledge” : Pledge},  
    ...  
  ],  
  “directFunding” : [  
    {“direct” : 5.00},  
    {“direct” : 150.50},  
    ...  
  ],  
  “goalMet” : False,  
  “fundingGoal” : 5000.00,  
  “currentFunding” : 155.50}
```

Pledge

```
{“title” : “ninja”,  
  “amount” : 600.10,  
  “description” : “”,  
  “maxSupporters” : 5,  
  “supporters” : [  
    {“supporter” : Supporter},  
    {“supporter” : Supporter},  
    ...  
  ] }
```

Administrator

```
{“name”: “Qui transtulit sustinet ”,  
  “projects” : [  
    {“project” : Project },  
    {“project” : Project},  
    ...  
  ] }
```

Supporter

```
{“emailAddress” : “goat3@wpi.edu”,  
  “budget” : 200.10,  
  “pastSuccessPledges” : [  
    {“pledge” : Pledge},  
    {“pledge” : Pledge},  
    ...  
  ],  
  “pastDirectSupport”: [  
    {“direct” : 5.00},  
    {“direct” : 150.50},  
    ...  
  ]  
}
```

/registerDesigner

POST

```
{“name” : “professorHeineman”, “emailAddress”: “heineman@wpi.edu”}
```

200:

Designer

400:

```
{“error”: “Name or Email Address already exists”}
```

/createProject

POST

```
{“project”: {“name” : “project-name”,
```

```
“story” : “description”,
```

```
“type” : “category”,
```

```
“deadline” : “aDate”,
```

```
“fundingGoal” : 5000.00}
```

```
“designer”:“heineman@wpi.edu” }
```

200:

Project

400:

```
{“error” : “This project already exists”}
```

```
{“error” : “Invalid input”}
```

/listProjectsDesigner

POST

```
{“designer” : “heineman@wpi.edu” }
```

200:

```
{“projects” : [  
    {“project” : Project},  
    {“project” : Project},  
    ...  
],  
}
```

400:

```
{“error” : “There are no projects for this designer.”}
```

/deleteProjectDesigner

POST

```
{“name” : “projectName”, “designer” : “heineman@wpi.edu”}
```

200:

```
{“projects” : [  
    {“project” : Project},  
    {“project” : Project},  
    ...  
],  
}
```

400:

```
{“error” : “The project does not exist or has already been launched.”}
```

/createPledge

POST

```
{“title” : “pledgeTitle”, “amount”: 1000.00, “description” : “description”, “maxSupporters” : 5,  
“project” : “nameOfProject”}
```

200:

Pledge

400:

```
{“error” : “Insufficient arguments”}
```

/deletePledge

POST

```
{“pledge” : “nameOfPledge”, “project” : “nameOfProject”}
```

200:

Project

400:

```
{“error” : “The pledge does not exist.”}
```

/launchProject

POST

```
{“name” : “nameOfProject”, “designer”:“heineman@wpi.edu”}
```

200:

Project

400:

```
{ “error” : “Project does not exist.”}
```

```
{“error” : “The project has already been launched.”}
```

/reviewProjectActivity

POST

```
{“name” : “projectName”, “designer” : “heineman@wpi.edu”}
```

200:

Project

400:

```
{"error" : "Project does not exist."}
```

/registerSupporter

POST

```
{“email” : “emailAddress”, “budget” : 50.00}
```

200:

Supporter

400: {"error" : “Name or Email Address already exists.”}

/searchProjects

POST

```
{“searchCriteria” : “music”}
```

200:

```
{“projects” : [  
    {“project” : Project},  
    {“project” : Project},  
    ...  
],  
}
```

/reviewSupporterActivity

POST

```
{“name” : “supporterName”}
```

200:

```
{“pastSupport” : [  
    {“support” : 100.00},  
    {“support” : 25.25},  
    ...  
]  
}
```

400:

```
{“error” : “Supporter not found or no activity found” }
```

/addFunds

POST

```
{“supporter” : “topSupporter”, “funds” : 20.00}
```

200:

Supporter

400:

```
{ “error” : “The supporter’s account could not be found.” }
```

/viewProject

POST

```
{“name” : “projectName”}
```

200:

Project

400:

```
{ “error” : “Project does not exist.” }
```


/viewPledge

POST

{“pledge” : “nameOfPledge”, “project” : “nameOfProject” }

200:

Pledge

400:

{ "error" : "The pledge does not exist." }

/claimPledge

POST

{“pledge” : “nameOfPledge”, “project” : “nameOfProject” }

200:

Pledge

400:

{ "error" : "The pledge has not been created." }

{“error” : “The pledge cannot be afforded.”}

{“error” : “The supporter max has been reached.”}

/directSupport

POST

{“project” : “project1”, “amount” : 10.00}

200:

Project

400:

{ "error" : "The project is not active." }

{“error” : “ The amount exceeds balance.”}

/listProjectsAdmin

GET

200:

```
{“projects” : [  
    {“project” : Project},  
    {“project” : Project},  
    ...  
  ]  
}
```

400:

```
{“error” : “There are no projects.”}
```

/deleteProjectAdmin

POST

```
{“name” : “projectName”}
```

200:

```
{“projects” : [  
    {“project” : Project},  
    {“project” : Project},  
    ...  
  ],  
}
```

400:

```
{ "error" : "The project does not exist." }
```

/reapProject

POST

```
{“emailAddress” : “sample@wpi.edu”}
```

200:

```
{“projects” : [  
    {“project” : Project},  
    {“project” : Project},  
    ...  
],  
}
```

400:

```
{“error”: “Invalid admin credentials.”}
```

/logIn

POST

```
{“emailAddress” : “sample@wpi.edu”}
```

200:

```
{“projects” : [  
    {“project” : Project},  
    {“project” : Project},  
    ...  
],  
}
```

400:

```
{"error" : "User not found"}
```