



# Grickit

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Course: 4624

Institution: Virginia Tech

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Department: Computer Science

Client: Dr. Steven Sheetz

City, State, Country: Blacksburg, VA, USA

# ● Problem Introduction

- AHP Algorithm
- Back-end Implementation
- UI/UX Development
- Social Network Integration
- Deployment to Hardware

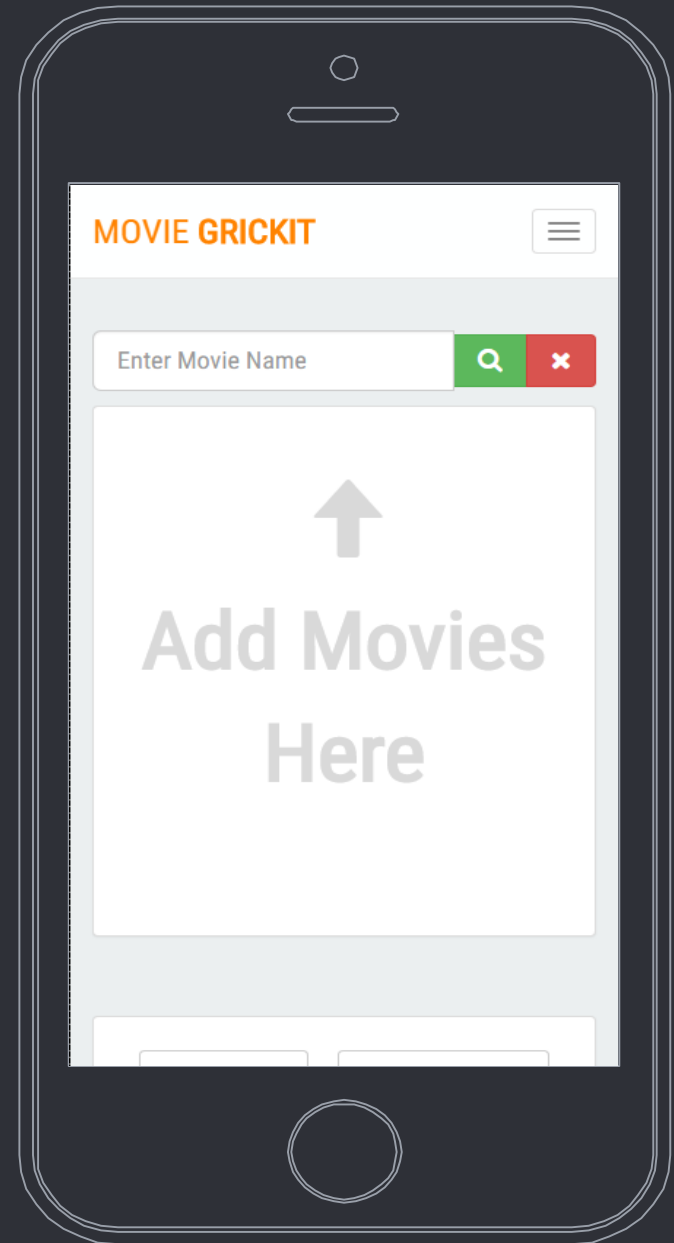
# ● Design

## “General Solution” Back-end

- Node.js REST API

## Modern UI

- HTML5
- Bootstrap 3.0
- Mobile Responsive



# ● Back-end Implementation

- **All AHP calculations**
- **Grickit Management**
- **Database interactions**
- **Live Documentation**

# Grickit API Documentation

All public routes for the Movies Grickit API

## api

Show/Hide | List Operations | Expand Operations | Raw

GET /api/grickit

Gets the stored information for all grickits

Try it out

[Hide Response](#)

### Request URL

```
https://sheetz.pamplin.vt.edu:8080/api/grickit
```

### Response Body

```
0,
3
],
"numAlternatives": 2,
"critWeightOptions": [
  {
    "a": 0,
    "b": 1,
    "weight": null
  }
],
"altWeightOptions": [
  [
    {
      "a": 0,
      "b": 3,
      "weight": null
    }
  ]
],
[
  {
```

### Response Code

```
200
```

### Response Headers

```
{
  "Date": "Tue, 28 Apr 2015 23:02:30 GMT",
  "Content-Encoding": "gzip",
  "Vary": "origin,accept-encoding",
  "Access-Control-Allow-Methods": "GET, HEAD, POST, PUT, PATCH, DELETE, OPTIONS",
  "Content-Type": "application/json; charset=utf-8",
  "Access-Control-Allow-Origin": "*",
  "Access-Control-Expose-Headers": "WWW-Authenticate, Server-Authorization",
```

Enter Movie Name

Search

Clear



Add Movies Here

Critic Score

Audience Score

Cast

Runtime

Rating

Generate Grickit

Reset

https://sheetz.pamplin.vt.edu:8080/#/weighting/21



## Top Results

34% Match



Furious 7

43% Match



Interstellar

11% Match



The Terminal

Show All Results

- Lessons Learned & Future Work

- Deployment is never easy

Full General Solution

Security is important

Educational Aspect





**Thanks!**

**ANY QUESTIONS?**

- Client Contact Information

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