

***Front-end Framework***

**Mock Project**

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RECORD OF CHANGES

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# Blog App

Problem Description:

While most "todo" demos provide an excellent cursory glance at a framework's capabilities, they typically don't convey the knowledge & perspective required to actually build *real* applications with it.

RealWorld solves this by allowing you to choose any frontend (React, Angular 2, & more) and any backend (Node, Django, & more) and see how they power a real world, beautifully designed fullstack app called "[Conduit](https://demo.realworld.io/)".

Project Overview

"Conduit" is a social blogging site (i.e. a Medium.com clone). It uses a custom API for all requests, including authentication. You can view a live demo over at [https://demo.realworld.io](https://demo.realworld.io/)

General functionality:

* Authenticate users via JWT (login/signup pages + logout button on settings page)
* CRU\* users (sign up & settings page - no deleting required)
* CRUD Articles
* CR\*D Comments on articles (no updating required)
* GET and display paginated lists of articles
* Favorite articles
* Follow other users

Frontend Specs

Using the hosted API

Simply point your [API requests](https://github.com/gothinkster/realworld/tree/master/api) to <https://conduit.productionready.io/api>  and you're good to go!

Routing Guidelines

* Home page (URL: /#/ )
  + List of tags
  + List of articles pulled from either Feed, Global, or by Tag
  + Pagination for list of articles
* Sign in/Sign up pages (URL: /#/login, /#/register )
  + Uses JWT (store the token in localStorage)
  + Authentication can be easily switched to session/cookie based
* Settings page (URL: /#/settings )
* Editor page to create/edit articles (URL: /#/editor, /#/editor/article-slug-here )
* Article page (URL: /#/article/article-slug-here )
  + Delete article button (only shown to article's author)
  + Render markdown from server client side
  + Comments section at bottom of page
  + Delete comment button (only shown to comment's author)
* Profile page (URL: /#/profile/:username, /#/profile/:username/favorites )
  + Show basic user info
  + List of articles populated from author's created articles or author's favorited articles

Styles

Instead of having the Bootstrap theme included locally, we recommend loading the precompiled theme from our CDN (our [header template](https://github.com/gothinkster/realworld-starter-kit/blob/master/FRONTEND_INSTRUCTIONS.md#header) does this by default):

1. <link rel="stylesheet" href="//demo.productionready.io/main.css">

Alternatively, if you want to make modifications to the theme, check out the [theme's repo](https://github.com/gothinkster/conduit-bootstrap-template).

Templates

### Layout

#### Header

1. <!DOCTYPE html>
2. <html>
3. <head>
4. <meta charset="utf-8">
5. <title>Conduit</title>
6. <!-- Import Ionicon icons & Google Fonts our Bootstrap theme relies on -->
7. <link href="//code.ionicframework.com/ionicons/2.0.1/css/ionicons.min.css" rel="stylesheet" type="text/css">
8. <link href="//fonts.googleapis.com/css?family=Titillium+Web:700|Source+Serif+Pro:400,700|Merriweather+Sans:400,700|Source+Sans+Pro:400,300,600,700,300italic,400italic,600italic,700italic" rel="stylesheet" type="text/css">
9. <!-- Import the custom Bootstrap 4 theme from our hosted CDN -->
10. <link rel="stylesheet" href="//demo.productionready.io/main.css">
11. </head>
12. <body>
13. <nav class="navbar navbar-light">
14. <div class="container">
15. <a class="navbar-brand" href="index.html">conduit</a>
16. <ul class="nav navbar-nav pull-xs-right">
17. <li class="nav-item">
18. <!-- Add "active" class when you're on that page" -->
19. <a class="nav-link active" href="">Home</a>
20. </li>
21. <li class="nav-item">
22. <a class="nav-link" href="">
23. <i class="ion-compose"></i>&nbsp;New Post
24. </a>
25. </li>
26. <li class="nav-item">
27. <a class="nav-link" href="">
28. <i class="ion-gear-a"></i>&nbsp;Settings
29. </a>
30. </li>
31. <li class="nav-item">
32. <a class="nav-link" href="">Sign up</a>
33. </li>
34. </ul>
35. </div>
36. </nav>

#### Footer

1. <footer>
2. <div class="container">
3. <a href="/" class="logo-font">conduit</a>
4. <span class="attribution">
5. An interactive learning project from <a href="https://thinkster.io">Thinkster</a>. Code &amp; design licensed under MIT.
6. </span>
7. </div>
8. </footer>

### Pages

#### Home

1. <div class="home-page">
2. <div class="banner">
3. <div class="container">
4. <h1 class="logo-font">conduit</h1>
5. <p>A place to share your knowledge.</p>
6. </div>
7. </div>
8. <div class="container page">
9. <div class="row">
10. <div class="col-md-9">
11. <div class="feed-toggle">
12. <ul class="nav nav-pills outline-active">
13. <li class="nav-item">
14. <a class="nav-link disabled" href="">Your Feed</a>
15. </li>
16. <li class="nav-item">
17. <a class="nav-link active" href="">Global Feed</a>
18. </li>
19. </ul>
20. </div>
21. <div class="article-preview">
22. <div class="article-meta">
23. <a href="profile.html"><img src="http://i.imgur.com/Qr71crq.jpg" /></a>
24. <div class="info">
25. <a href="" class="author">Eric Simons</a>
26. <span class="date">January 20th</span>
27. </div>
28. <button class="btn btn-outline-primary btn-sm pull-xs-right">
29. <i class="ion-heart"></i> 29
30. </button>
31. </div>
32. <a href="" class="preview-link">
33. <h1>How to build webapps that scale</h1>
34. <p>This is the description for the post.</p>
35. <span>Read more...</span>
36. </a>
37. </div>
38. <div class="article-preview">
39. <div class="article-meta">
40. <a href="profile.html"><img src="http://i.imgur.com/N4VcUeJ.jpg" /></a>
41. <div class="info">
42. <a href="" class="author">Albert Pai</a>
43. <span class="date">January 20th</span>
44. </div>
45. <button class="btn btn-outline-primary btn-sm pull-xs-right">
46. <i class="ion-heart"></i> 32
47. </button>
48. </div>
49. <a href="" class="preview-link">
50. <h1>The song you won't ever stop singing. No matter how hard you try.</h1>
51. <p>This is the description for the post.</p>
52. <span>Read more...</span>
53. </a>
54. </div>
55. </div>
56. <div class="col-md-3">
57. <div class="sidebar">
58. <p>Popular Tags</p>
59. <div class="tag-list">
60. <a href="" class="tag-pill tag-default">programming</a>
61. <a href="" class="tag-pill tag-default">javascript</a>
62. <a href="" class="tag-pill tag-default">emberjs</a>
63. <a href="" class="tag-pill tag-default">angular</a>
64. <a href="" class="tag-pill tag-default">react</a>
65. <a href="" class="tag-pill tag-default">mean</a>
66. <a href="" class="tag-pill tag-default">node</a>
67. <a href="" class="tag-pill tag-default">rails</a>
68. </div>
69. </div>
70. </div>
71. </div>
72. </div>
73. </div>

#### Login/Register

1. <div class="auth-page">
2. <div class="container page">
3. <div class="row">
4. <div class="col-md-6 offset-md-3 col-xs-12">
5. <h1 class="text-xs-center">Sign up</h1>
6. <p class="text-xs-center">
7. <a href="">Have an account?</a>
8. </p>
9. <ul class="error-messages">
10. <li>That email is already taken</li>
11. </ul>
12. <form>
13. <fieldset class="form-group">
14. <input class="form-control form-control-lg" type="text" placeholder="Your Name">
15. </fieldset>
16. <fieldset class="form-group">
17. <input class="form-control form-control-lg" type="text" placeholder="Email">
18. </fieldset>
19. <fieldset class="form-group">
20. <input class="form-control form-control-lg" type="password" placeholder="Password">
21. </fieldset>
22. <button class="btn btn-lg btn-primary pull-xs-right">
23. Sign up
24. </button>
25. </form>
26. </div>
27. </div>
28. </div>
29. </div>

#### Profile

1. <div class="profile-page">
2. <div class="user-info">
3. <div class="container">
4. <div class="row">
5. <div class="col-xs-12 col-md-10 offset-md-1">
6. <img src="http://i.imgur.com/Qr71crq.jpg" class="user-img" />
7. <h4>Eric Simons</h4>
8. <p>
9. Cofounder @GoThinkster, lived in Aol's HQ for a few months, kinda looks like Peeta from the Hunger Games
10. </p>
11. <button class="btn btn-sm btn-outline-secondary action-btn">
12. <i class="ion-plus-round"></i>
13. &nbsp;
14. Follow Eric Simons
15. </button>
16. </div>
17. </div>
18. </div>
19. </div>
20. <div class="container">
21. <div class="row">
22. <div class="col-xs-12 col-md-10 offset-md-1">
23. <div class="articles-toggle">
24. <ul class="nav nav-pills outline-active">
25. <li class="nav-item">
26. <a class="nav-link active" href="">My Articles</a>
27. </li>
28. <li class="nav-item">
29. <a class="nav-link" href="">Favorited Articles</a>
30. </li>
31. </ul>
32. </div>
33. <div class="article-preview">
34. <div class="article-meta">
35. <a href=""><img src="http://i.imgur.com/Qr71crq.jpg" /></a>
36. <div class="info">
37. <a href="" class="author">Eric Simons</a>
38. <span class="date">January 20th</span>
39. </div>
40. <button class="btn btn-outline-primary btn-sm pull-xs-right">
41. <i class="ion-heart"></i> 29
42. </button>
43. </div>
44. <a href="" class="preview-link">
45. <h1>How to build webapps that scale</h1>
46. <p>This is the description for the post.</p>
47. <span>Read more...</span>
48. </a>
49. </div>
50. <div class="article-preview">
51. <div class="article-meta">
52. <a href=""><img src="http://i.imgur.com/N4VcUeJ.jpg" /></a>
53. <div class="info">
54. <a href="" class="author">Albert Pai</a>
55. <span class="date">January 20th</span>
56. </div>
57. <button class="btn btn-outline-primary btn-sm pull-xs-right">
58. <i class="ion-heart"></i> 32
59. </button>
60. </div>
61. <a href="" class="preview-link">
62. <h1>The song you won't ever stop singing. No matter how hard you try.</h1>
63. <p>This is the description for the post.</p>
64. <span>Read more...</span>
65. <ul class="tag-list">
66. <li class="tag-default tag-pill tag-outline">Music</li>
67. <li class="tag-default tag-pill tag-outline">Song</li>
68. </ul>
69. </a>
70. </div>
71. </div>
72. </div>
73. </div>
74. </div>

#### Settings

1. <div class="settings-page">
2. <div class="container page">
3. <div class="row">
4. <div class="col-md-6 offset-md-3 col-xs-12">
5. <h1 class="text-xs-center">Your Settings</h1>
6. <form>
7. <fieldset>
8. <fieldset class="form-group">
9. <input class="form-control" type="text" placeholder="URL of profile picture">
10. </fieldset>
11. <fieldset class="form-group">
12. <input class="form-control form-control-lg" type="text" placeholder="Your Name">
13. </fieldset>
14. <fieldset class="form-group">
15. <textarea class="form-control form-control-lg" rows="8" placeholder="Short bio about you"></textarea>
16. </fieldset>
17. <fieldset class="form-group">
18. <input class="form-control form-control-lg" type="text" placeholder="Email">
19. </fieldset>
20. <fieldset class="form-group">
21. <input class="form-control form-control-lg" type="password" placeholder="Password">
22. </fieldset>
23. <button class="btn btn-lg btn-primary pull-xs-right">
24. Update Settings
25. </button>
26. </fieldset>
27. </form>
28. </div>
29. </div>
30. </div>
31. </div>

#### Create/Edit Article

1. <div class="editor-page">
2. <div class="container page">
3. <div class="row">
4. <div class="col-md-10 offset-md-1 col-xs-12">
5. <form>
6. <fieldset>
7. <fieldset class="form-group">
8. <input type="text" class="form-control form-control-lg" placeholder="Article Title">
9. </fieldset>
10. <fieldset class="form-group">
11. <input type="text" class="form-control" placeholder="What's this article about?">
12. </fieldset>
13. <fieldset class="form-group">
14. <textarea class="form-control" rows="8" placeholder="Write your article (in markdown)"></textarea>
15. </fieldset>
16. <fieldset class="form-group">
17. <input type="text" class="form-control" placeholder="Enter tags"><div class="tag-list"></div>
18. </fieldset>
19. <button class="btn btn-lg pull-xs-right btn-primary" type="button">
20. Publish Article
21. </button>
22. </fieldset>
23. </form>
24. </div>
25. </div>
26. </div>
27. </div>

#### Article

1. <div class="article-page">
2. <div class="banner">
3. <div class="container">
4. <h1>How to build webapps that scale</h1>
5. <div class="article-meta">
6. <a href=""><img src="http://i.imgur.com/Qr71crq.jpg" /></a>
7. <div class="info">
8. <a href="" class="author">Eric Simons</a>
9. <span class="date">January 20th</span>
10. </div>
11. <button class="btn btn-sm btn-outline-secondary">
12. <i class="ion-plus-round"></i>
13. &nbsp;
14. Follow Eric Simons <span class="counter">(10)</span>
15. </button>
16. &nbsp;&nbsp;
17. <button class="btn btn-sm btn-outline-primary">
18. <i class="ion-heart"></i>
19. &nbsp;
20. Favorite Post <span class="counter">(29)</span>
21. </button>
22. </div>
23. </div>
24. </div>
25. <div class="container page">
26. <div class="row article-content">
27. <div class="col-md-12">
28. <p>
29. Web development technologies have evolved at an incredible clip over the past few years.
30. </p>
31. <h2 id="introducing-ionic">Introducing RealWorld.</h2>
32. <p>It's a great solution for learning how other frameworks work.</p>
33. </div>
34. </div>
35. <hr />
36. <div class="article-actions">
37. <div class="article-meta">
38. <a href="profile.html"><img src="http://i.imgur.com/Qr71crq.jpg" /></a>
39. <div class="info">
40. <a href="" class="author">Eric Simons</a>
41. <span class="date">January 20th</span>
42. </div>
43. <button class="btn btn-sm btn-outline-secondary">
44. <i class="ion-plus-round"></i>
45. &nbsp;
46. Follow Eric Simons <span class="counter">(10)</span>
47. </button>
48. &nbsp;
49. <button class="btn btn-sm btn-outline-primary">
50. <i class="ion-heart"></i>
51. &nbsp;
52. Favorite Post <span class="counter">(29)</span>
53. </button>
54. </div>
55. </div>
56. <div class="row">
57. <div class="col-xs-12 col-md-8 offset-md-2">
58. <form class="card comment-form">
59. <div class="card-block">
60. <textarea class="form-control" placeholder="Write a comment..." rows="3"></textarea>
61. </div>
62. <div class="card-footer">
63. <img src="http://i.imgur.com/Qr71crq.jpg" class="comment-author-img" />
64. <button class="btn btn-sm btn-primary">
65. Post Comment
66. </button>
67. </div>
68. </form>
70. <div class="card">
71. <div class="card-block">
72. <p class="card-text">With supporting text below as a natural lead-in to additional content.</p>
73. </div>
74. <div class="card-footer">
75. <a href="" class="comment-author">
76. <img src="http://i.imgur.com/Qr71crq.jpg" class="comment-author-img" />
77. </a>
78. &nbsp;
79. <a href="" class="comment-author">Jacob Schmidt</a>
80. <span class="date-posted">Dec 29th</span>
81. </div>
82. </div>
83. <div class="card">
84. <div class="card-block">
85. <p class="card-text">With supporting text below as a natural lead-in to additional content.</p>
86. </div>
87. <div class="card-footer">
88. <a href="" class="comment-author">
89. <img src="http://i.imgur.com/Qr71crq.jpg" class="comment-author-img" />
90. </a>
91. &nbsp;
92. <a href="" class="comment-author">Jacob Schmidt</a>
93. <span class="date-posted">Dec 29th</span>
94. <span class="mod-options">
95. <i class="ion-edit"></i>
96. <i class="ion-trash-a"></i>
97. </span>
98. </div>
99. </div>
101. </div>
102. </div>
103. </div>
104. </div>

Backend Specs

API URL:  <https://conduit.productionready.io/api>

Endpoints:

### Authentication:

1. POST /api/users/login

Example request body:

1. {
2. "user":{
3. "email": "jake@jake.jake",
4. "password": "jakejake"
5. }

No authentication required, returns a User

Required fields: email, password

### 

### Registration:

1. POST /api/users

Example request body:

1. {
2. "user":{
3. "username": "Jacob",
4. "email": "jake@jake.jake",
5. "password": "jakejake"
6. }
7. }

No authentication required, returns a User

Required fields: email, username, password

### Get Current User

1. GET /api/user

Authentication required, returns a User that's the current user

### Update User

1. PUT /api/user

Example request body:

1. {
2. "user":{
3. "email": "jake@jake.jake",
4. "bio": "I like to skateboard",
5. "image": "https://i.stack.imgur.com/xHWG8.jpg"
6. }
7. }

Authentication required, returns the User

Accepted fields: email, username, password, image, bio

### Get Profile

1. GET /api/profiles/:username

Authentication optional, returns a Profile

### Follow user

1. POST /api/profiles/:username/follow

Authentication required, returns a Profile

No additional parameters required

### Unfollow user

1. DELETE /api/profiles/:username/follow

Authentication required, returns a Profile

No additional parameters required

### List Articles

1. GET /api/articles

Returns most recent articles globally by default, provide tag, author or favorited query parameter to filter results

Query Parameters:

Filter by tag:

1. ?tag=Angular

Filter by author:

1. ?author=jake

Favorited by user:

1. ?favorited=jake

Limit number of articles (default is 20):

1. ?limit=20

Offset/skip number of articles (default is 0):

1. ?offset=0

Authentication optional, will return multiple articles, ordered by most recent first

### Feed Articles

1. GET /api/articles/feed

Can also take limit and offset query parameters like list Articles

Authentication required, will return multiple articles created by followed users, ordered by most recent first.

### Get Article

1. GET /api/articles/:slug

No authentication required, will return single article

### Create Article

1. POST /api/articles

Example request body:

1. {
2. "article": {
3. "title": "How to train your dragon",
4. "description": "Ever wonder how?",
5. "body": "You have to believe",
6. "tagList": ["reactjs", "angular", "dragons"]
7. }
8. }

Authentication required, will return an Article

Required fields: title, description, body

Optional fields: tagList as an array of Strings

### Update Article

1. PUT /api/articles/:slug

Example request body:

1. {
2. "article": {
3. "title": "Did you train your dragon?"
4. }
5. }

Authentication required, returns the updated Article

Optional fields: title, description, body

The slug also gets updated when the title is changed

### Delete Article

1. DELETE /api/articles/:slug

Authentication required

### Add Comments to an Article

1. POST /api/articles/:slug/comments

Example request body:

1. {
2. "comment": {
3. "body": "His name was my name too."
4. }
5. }

Authentication required, returns the created Comment

Required field: body

### Get Comments from an Article

1. GET /api/articles/:slug/comments

Authentication optional, returns multiple comments

### Delete Comment

1. DELETE /api/articles/:slug/comments/:id

Authentication required

### Favorite Article

1. POST /api/articles/:slug/favorite

Authentication required, returns the Article

No additional parameters required

### Unfavorite Article

1. DELETE /api/articles/:slug/favorite

Authentication required, returns the Article

No additional parameters required

### Get Tags

1. GET /api/tags

No authentication required, returns a List of Tags

JSON Objects returned by API:

Make sure the right content type like Content-Type: application/json; charset=utf-8 is correctly returned.

### Users (for authentication)

1. {
2. "user": {
3. "email": "jake@jake.jake",
4. "token": "jwt.token.here",
5. "username": "jake",
6. "bio": "I work at statefarm",
7. "image": null
8. }
9. }

### Profile

1. {
2. "profile": {
3. "username": "jake",
4. "bio": "I work at statefarm",
5. "image": "https://static.productionready.io/images/smiley-cyrus.jpg",
6. "following": false
7. }
8. }

### Single Article

1. {
2. "article": {
3. "slug": "how-to-train-your-dragon",
4. "title": "How to train your dragon",
5. "description": "Ever wonder how?",
6. "body": "It takes a Jacobian",
7. "tagList": ["dragons", "training"],
8. "createdAt": "2016-02-18T03:22:56.637Z",
9. "updatedAt": "2016-02-18T03:48:35.824Z",
10. "favorited": false,
11. "favoritesCount": 0,
12. "author": {
13. "username": "jake",
14. "bio": "I work at statefarm",
15. "image": "https://i.stack.imgur.com/xHWG8.jpg",
16. "following": false
17. }
18. }
19. }

### Multiple Articles

1. {
2. "articles":[{
3. "slug": "how-to-train-your-dragon",
4. "title": "How to train your dragon",
5. "description": "Ever wonder how?",
6. "body": "It takes a Jacobian",
7. "tagList": ["dragons", "training"],
8. "createdAt": "2016-02-18T03:22:56.637Z",
9. "updatedAt": "2016-02-18T03:48:35.824Z",
10. "favorited": false,
11. "favoritesCount": 0,
12. "author": {
13. "username": "jake",
14. "bio": "I work at statefarm",
15. "image": "https://i.stack.imgur.com/xHWG8.jpg",
16. "following": false
17. }
18. }, {
19. "slug": "how-to-train-your-dragon-2",
20. "title": "How to train your dragon 2",
21. "description": "So toothless",
22. "body": "It a dragon",
23. "tagList": ["dragons", "training"],
24. "createdAt": "2016-02-18T03:22:56.637Z",
25. "updatedAt": "2016-02-18T03:48:35.824Z",
26. "favorited": false,
27. "favoritesCount": 0,
28. "author": {
29. "username": "jake",
30. "bio": "I work at statefarm",
31. "image": "https://i.stack.imgur.com/xHWG8.jpg",
32. "following": false
33. }
34. }],
35. "articlesCount": 2
36. }

### Single Comment

1. {
2. "comment": {
3. "id": 1,
4. "createdAt": "2016-02-18T03:22:56.637Z",
5. "updatedAt": "2016-02-18T03:22:56.637Z",
6. "body": "It takes a Jacobian",
7. "author": {
8. "username": "jake",
9. "bio": "I work at statefarm",
10. "image": "https://i.stack.imgur.com/xHWG8.jpg",
11. "following": false
12. }
13. }
14. }

### Multiple Comments

1. {
2. "comments": [{
3. "id": 1,
4. "createdAt": "2016-02-18T03:22:56.637Z",
5. "updatedAt": "2016-02-18T03:22:56.637Z",
6. "body": "It takes a Jacobian",
7. "author": {
8. "username": "jake",
9. "bio": "I work at statefarm",
10. "image": "https://i.stack.imgur.com/xHWG8.jpg",
11. "following": false
12. }
13. }]
14. }

### List of Tags

1. {
2. "tags": [
3. "reactjs",
4. "angular"
5. ]
6. }

### 

### Errors and Status Codes

If a request fails any validations, expect a 422 and errors in the following format:

1. {
2. "errors":{
3. "body": [
4. "can't be empty"
5. ]
6. }
7. }

### 

### Other status codes:

401 for Unauthorized requests, when a request requires authentication but it isn't provided

403 for Forbidden requests, when a request may be valid but the user doesn't have permissions to perform the action

404 for Not found requests, when a resource can't be found to fulfill the request.