

A.HTML

```
<!DOCTYPE html>

<html ng-app="pitchBookingApp">

<head>

  <meta charset="UTF-8">

  <meta name="viewport" content="width=device-width, initial-scale=1.0">

  <title>Pitch Booking System</title>


  <link
href="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/css/bootstrap.min.css"
rel="stylesheet">

  <link href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.0.0/css/all.min.css" rel="stylesheet">

  <link href="css/style.css" rel="stylesheet">

</head>

<body>

  <nav class="navbar navbar-expand-lg navbar-dark bg-primary">

    <div class="container-fluid">

      <a class="navbar-brand" href="#"><i class="fas fa-baseball-ball"></i>
Pitch Booking</a>

      <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#navbarNav">

        <span class="navbar-toggler-icon"></span>

      </button>

      <div class="collapse navbar-collapse" id="navbarNav">

        <ul class="navbar-nav me-auto">

          <li class="nav-item">
```

```

        <a class="nav-link" href="#!home">Home</a>
    </li>
    <li class="nav-item">
        <a class="nav-link" href="#!pitches">Browse Pitches</a>
    </li>
    <li class="nav-item" ng-if="isAuthenticated()">
        <a class="nav-link" href="#!add-pitch">Add Pitch</a>
    </li>
    <li class="nav-item">
        <a class="nav-link" href="#!analytics">Analytics</a>
    </li>
</ul>
<ul class="navbar-nav">
    <li class="nav-item" ng-if="!isAuthenticated()">
        <a class="nav-link" href="#!login">Login</a>
    </li>
    <li class="nav-item" ng-if="!isAuthenticated()">
        <a class="nav-link" href="#!register">Register</a>
    </li>
    <li class="nav-item dropdown" ng-if="isAuthenticated()">
        <a class="nav-link dropdown-toggle" href="#"
id="userDropdown" role="button" data-bs-toggle="dropdown">
            <i class="fas fa-user"></i> {{ currentUser.username }}
        </a>
        <ul class="dropdown-menu dropdown-menu-end">
            <li><a class="dropdown-item"
href="#!profile">Profile</a></li>

```

```
        <li><hr class="dropdown-divider"></li>
        <li><a class="dropdown-item" href="#" ng-
click="logout()">Logout</a></li>
```

```
    </ul>
```

```
</li>
```

```
</ul>
```

```
</div>
```

```
</div>
```

```
</nav>
```

```
<div class="container-fluid mt-4">
```

```
    <div ng-view></div>
```

```
</div>
```

```
<footer class="bg-light text-center text-lg-start mt-5">
```

```
    <div class="text-center p-3 bg-primary text-white">
```

```
        © 2025 Pitch Booking System
```

```
    </div>
```

```
</footer>
```

```
    <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular.min.js"></scri
pt>
```

```
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.8.2/angular-
route.min.js"></script>
```

```
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.1.3/dist/js/bootstrap.bundle.min.j
s"></script>
```

```
<script src="app/app.js"></script>
<script src="app/services/authService.js"></script>
<script src="app/services/pitchService.js"></script>
<script src="app/services/analyticsService.js"></script>
<script src="app/controllers/mainController.js"></script>
<script src="app/controllers/homeController.js"></script>
<script src="app/controllers/loginController.js"></script>
<script src="app/controllers/registerController.js"></script>
<script src="app/controllers/pitchListController.js"></script>
<script src="app/controllers/pitchDetailController.js"></script>
<script src="app/controllers/addPitchController.js"></script>
<script src="app/controllers/analyticsController.js"></script>
<script src="app/directives/pitchCard.js"></script>
</body>
</html>
```

B. css/style.css

```
body {
  min-height: 100vh;
  display: flex;
  flex-direction: column;
}

.container-fluid {
  flex: 1;
}
```

```
.pitch-card {  
  transition: transform 0.2s;  
  height: 100%;  
}
```

```
.pitch-card:hover {  
  transform: translateY(-5px);  
  box-shadow: 0 4px 15px rgba(0,0,0,0.2);  
}
```

```
.badge-status {  
  font-size: 0.85rem;  
}
```

```
.filter-section {  
  background: #f8f9fa;  
  padding: 20px;  
  border-radius: 8px;  
  margin-bottom: 20px;  
}
```

```
.rating {  
  color: #ffc107;  
}
```

```
.price-tag {  
    font-size: 1.5rem;  
    font-weight: bold;  
    color: #28a745;  
}
```

```
.review-item {  
    border-left: 3px solid #007bff;  
    padding-left: 15px;  
}
```

```
.stat-card {  
    border-left: 4px solid #007bff;  
}
```

```
.stat-card h3 {  
    color: #007bff;  
    font-size: 2rem;  
    font-weight: bold;  
}
```

```
.loading-spinner {  
    display: flex;  
    justify-content: center;  
    align-items: center;  
    min-height: 400px;
```

```
}
```

```
.error-message {  
  padding: 20px;  
  background: #f8d7da;  
  border: 1px solid #f5c6cb;  
  border-radius: 5px;  
  color: #721c24;  
}
```

```
.success-message {  
  padding: 20px;  
  background: #d4edda;  
  border: 1px solid #c3e6cb;  
  border-radius: 5px;  
  color: #155724;  
}
```

```
footer {  
  margin-top: auto;  
}
```

```
.hero-section {  
  background: linear-gradient(135deg, #667eea 0%, #764ba2 100%);  
  color: white;  
  padding: 60px 0;
```

```
    text-align: center;
    margin-bottom: 30px;
}
```

```
.hero-section h1 {
    font-size: 3rem;
    font-weight: bold;
}
```

```
.feature-icon {
    font-size: 3rem;
    color: #007bff;
    margin-bottom: 15px;
}
```

```
.pagination {
    margin-top: 20px;
}
```

C. app/app.js

```
angular.module('pitchBookingApp', ['ngRoute'])
```

```
.config(['$routeProvider', '$locationProvider', function($routeProvider,
$locationProvider) {
    $routeProvider
        .when('/home', {
```



```

        templateUrl: 'views/home.html',
        controller: 'HomeController'
    })

    .when('/login', {
        templateUrl: 'views/login.html',
        controller: 'LoginController'
    })

    .when('/register', {
        templateUrl: 'views/register.html',
        controller: 'RegisterController'
    })

    .when('/pitches', {
        templateUrl: 'views/pitch-list.html',
        controller: 'PitchListController'
    })

    .when('/pitches/:id', {
        templateUrl: 'views/pitch-detail.html',
        controller: 'PitchDetailController'
    })

    .when('/add-pitch', {
        templateUrl: 'views/add-pitch.html',
        controller: 'AddPitchController',
        resolve: {
            auth: function(AuthService, $location) {
                if (!AuthService.isAuthenticated()) {
                    $location.path('/login');
                }
            }
        }
    })
}

```

```

        }
    }
}
}))
.when('/analytics', {
    templateUrl: 'views/analytics.html',
    controller: 'AnalyticsController'
})
.otherwise({
    redirectTo: '/home'
});
})

```

```

.constant('API_URL', 'http://localhost:5001/api')

```

```

.run(['$rootScope', 'AuthService', function($rootScope, AuthService) {
    $rootScope.isAuthenticated = function() {
        return AuthService.isAuthenticated();
    };
}

```

```

$rootScope.currentUser = AuthService.getCurrentUser();

```

```

$rootScope.logout = function() {
    AuthService.logout();
    $rootScope.currentUser = null;
    window.location.href = '#!home';
}

```

```
};  
}]);
```

D. app/services/authService.js

```
angular.module('pitchBookingApp')  
.service('AuthService', ['$http', '$window', 'API_URL', function($http, $window,  
API_URL) {  
    this.register = function(userData) {  
        return $http.post(API_URL + '/auth/register', userData);  
    };  
  
    this.login = function(credentials) {  
        return $http.post(API_URL + '/auth/login', credentials)  
            .then(function(response) {  
                if (response.data.token) {  
                    $window.localStorage.setItem('token', response.data.token);  
                    $window.localStorage.setItem('user',  
JSON.stringify(response.data.user));  
                }  
                return response;  
            });  
    };  
  
    this.logout = function() {  
        $window.localStorage.removeItem('token');  
        $window.localStorage.removeItem('user');  
    };  
});
```

```
this.getToken = function() {  
    return $window.localStorage.getItem('token');  
};
```

```
this.isAuthenticated = function() {  
    return this.getToken() !== null;  
};
```

```
this.getCurrentUser = function() {  
    var user = $window.localStorage.getItem('user');  
    return user ? JSON.parse(user) : null;  
};
```

```
this.getAuthHeader = function() {  
    return {  
        headers: {  
            'Authorization': 'Bearer ' + this.getToken()  
        }  
    };  
};  
});
```

E. app/services/pitchService.js

```
angular.module('pitchBookingApp')  
    .service('PitchService', ['$http', 'API_URL', 'AuthService', function($http,  
    API_URL, AuthService) {
```

```
this.getPitches = function(filters) {  
    var params = filters || {};  
    return $http.get(API_URL + '/pitches', { params: params });  
};
```

```
this.getPitchById = function(id) {  
    return $http.get(API_URL + '/pitches/' + id);  
};
```

```
this.createPitch = function(pitchData) {  
    return $http.post(API_URL + '/pitches', pitchData,  
AuthService.getAuthHeader());  
};
```

```
this.updatePitch = function(id, pitchData) {  
    return $http.patch(API_URL + '/pitches/' + id, pitchData,  
AuthService.getAuthHeader());  
};
```

```
this.deletePitch = function(id) {  
    return $http.delete(API_URL + '/pitches/' + id,  
AuthService.getAuthHeader());  
};
```

```
this.addReview = function(pitchId, reviewData) {  
    return $http.post(API_URL + '/pitches/' + pitchId + '/reviews', reviewData,  
AuthService.getAuthHeader());  
};
```

```

    };

    this.updateReview = function(pitchId, reviewId, reviewData) {
        return $http.patch(API_URL + '/pitches/' + pitchId + '/reviews/' + reviewId,
            reviewData, AuthService.getAuthHeader());
    };

    this.deleteReview = function(pitchId, reviewId) {
        return $http.delete(API_URL + '/pitches/' + pitchId + '/reviews/' +
            reviewId, AuthService.getAuthHeader());
    };
}]);

```

F. app/services/analyticsService.js

```

angular.module('pitchBookingApp')
.service('AnalyticsService', ['$http', 'API_URL', function($http, API_URL) {
    this.getAvgPriceByGround = function() {
        return $http.get(API_URL + '/pitches/analytics/avg-price-by-ground');
    };

    this.getTopRated = function() {
        return $http.get(API_URL + '/pitches/analytics/top-rated');
    };
}]);

```

G. app/controllers/mainController.js

```

angular.module('pitchBookingApp')
.controller('MainController', ['$scope', '$rootScope', 'AuthService',

```

```

function($scope, $rootScope, AuthService) {
    $scope.isAuthenticated = AuthService.isAuthenticated;
    $scope.currentUser = AuthService.getCurrentUser();

    $scope.logout = function() {
        AuthService.logout();
        $rootScope.currentUser = null;
        window.location.href = '#!home';
    };
}]);

```

H. app/controllers/homeController.js

```

angular.module('pitchBookingApp')
.controller('HomeController', ['$scope', 'PitchService', function($scope,
PitchService) {
    $scope.loading = true;
    $scope.featuredPitches = [];

    PitchService.getPitches({ limit: 6, sort: 'PitchPrice', dir: 'asc' })
        .then(function(response) {
            $scope.featuredPitches = response.data.pitches || response.data;
            $scope.loading = false;
        })
        .catch(function(error) {
            console.error('Error loading pitches:', error);
            $scope.error = 'Failed to load pitches';
        });
}]);

```

```
    $scope.loading = false;
  });
}]);
```

I. app/controllers/loginController.js

```
angular.module('pitchBookingApp')
.controller('LoginController', ['$scope', '$location', '$rootScope', 'AuthService',
function($scope, $location, $rootScope, AuthService) {
    $scope.credentials = {};
    $scope.error = "";

    $scope.login = function() {
        $scope.loading = true;
        $scope.error = "";

        AuthService.login($scope.credentials)
            .then(function(response) {
                $rootScope.currentUser = response.data.user;
                $location.path('/pitches');
            })
            .catch(function(error) {
                $scope.error = error.data.message || 'Login failed';
                $scope.loading = false;
            });
    };
};
```



```
});
```

J. app/controllers/registerController.js

```
angular.module('pitchBookingApp')
.controller('RegisterController', ['$scope', '$location', 'AuthService',
function($scope, $location, AuthService) {
    $scope.user = {};
    $scope.error = "";

    $scope.register = function() {
        $scope.loading = true;
        $scope.error = "";

        if ($scope.user.password !== $scope.user.confirmPassword) {
            $scope.error = 'Passwords do not match';
            $scope.loading = false;
            return;
        }

        AuthService.register($scope.user)
            .then(function(response) {
                $location.path('/login');
            })
            .catch(function(error) {
                $scope.error = error.data.message || 'Registration failed';
                $scope.loading = false;
            });
    };
});
```

```
    });  
  };  
});
```

K. app/controllers/pitchListController.js

```
angular.module('pitchBookingApp')  
  .controller('PitchListController', ['$scope', 'PitchService', function($scope,  
  PitchService) {  
    $scope.pitches = [];  
    $scope.loading = true;  
    $scope.filters = {  
      page: 1,  
      limit: 12  
    };  
  
    $scope.statusOptions = ['Open', 'Closed', 'Under Maintenance'];  
    $scope.groundTypeOptions = ['Grass', 'Artificial Turf', 'Clay'];  
    $scope.environmentOptions = ['Indoor', 'Outdoor'];  
  
    $scope.loadPitches = function() {  
      $scope.loading = true;  
  
      var filters = {};  
      Object.keys($scope.filters).forEach(function(key) {  
        if ($scope.filters[key]) {  
          filters[key] = $scope.filters[key];  
        }  
      });  
    }  
  }]);
```

```
    }  
  });
```

PitchService.getPitches(filters)

```
    .then(function(response) {  
      $scope.pitches = response.data.pitches || response.data;  
      $scope.total = response.data.total || $scope.pitches.length;  
      $scope.loading = false;  
    })  
    .catch(function(error) {  
      console.error('Error loading pitches:', error);  
      $scope.error = 'Failed to load pitches';  
      $scope.loading = false;  
    });  
  };
```

```
$scope.clearFilters = function() {  
  $scope.filters = { page: 1, limit: 12 };  
  $scope.loadPitches();  
};
```

```
$scope.getRatingArray = function(rating) {  
  return new Array(Math.floor(rating || 0));  
};
```

```
$scope.loadPitches();
```

```
});
```

L. app/controllers/pitchDetailController.js

```
angular.module('pitchBookingApp')
```

```
.controller('PitchDetailController', ['$scope', '$routeParams', '$location',  
'PitchService', 'AuthService',
```

```
function($scope, $routeParams, $location, PitchService, AuthService) {
```

```
    $scope.loading = true;
```

```
    $scope.pitch = null;
```

```
    $scope.newReview = {};
```

```
    $scope.isAuthenticated = AuthService.isAuthenticated();
```

```
    $scope.currentUser = AuthService.getCurrentUser();
```

```
    $scope.loadPitch = function() {
```

```
        PitchService.getPitchById($routeParams.id)
```

```
        .then(function(response) {
```

```
            $scope.pitch = response.data;
```

```
            $scope.loading = false;
```

```
        })
```

```
        .catch(function(error) {
```

```
            console.error('Error loading pitch:', error);
```

```
            $scope.error = 'Failed to load pitch details';
```

```
            $scope.loading = false;
```

```
        });
```

```
};
```

```
$scope.addReview = function() {  
  if (!$scope.isAuthenticated) {  
    $location.path('/login');  
    return;  
  }  
}
```

```
var reviewData = {  
  reviewer: $scope.currentUser.username,  
  rating: $scope.newReview.rating,  
  comment: $scope.newReview.comment  
};
```

```
PitchService.addReview($routeParams.id, reviewData)  
  .then(function(response) {  
    $scope.newReview = {};  
    $scope.loadPitch();  
    $scope.success = 'Review added successfully!';  
  })  
  .catch(function(error) {  
    console.error('Error adding review:', error);  
    $scope.error = 'Failed to add review';  
  });  
};
```

```
$scope.deleteReview = function(reviewId) {  
  if (confirm('Are you sure you want to delete this review?')) {
```

```

PitchService.deleteReview($routeParams.id, reviewId)
    .then(function() {
        $scope.loadPitch();
        $scope.success = 'Review deleted successfully!';
    })
    .catch(function(error) {
        console.error('Error deleting review:', error);
        $scope.error = 'Failed to delete review';
    });
}
};

$scope.getRatingArray = function(rating) {
    return new Array(Math.floor(rating || 0));
};

$scope.loadPitch();
}));

```

M. app/controllers/addPitchController.js

```

angular.module('pitchBookingApp')
.controller('AddPitchController', ['$scope', '$location', 'PitchService',
function($scope, $location, PitchService) {
    $scope.pitch = {
        location: {}
    };
}

```

```
$scope.statusOptions = ['Open', 'Closed', 'Under Maintenance'];
$scope.groundTypeOptions = ['Grass', 'Artificial Turf', 'Clay'];
$scope.environmentOptions = ['Indoor', 'Outdoor'];
$scope.bowlingMachineOptions = ['available', 'not available', 'chargable'];
```

```
$scope.submitPitch = function() {
```

```
    $scope.loading = true;
```

```
    $scope.error = "";
```

```
    var pitchData = {
```

```
        Pitch: $scope.pitch.Pitch,
```

```
        Ground: $scope.pitch.Ground,
```

```
        location: {
```

```
            latitude: parseFloat($scope.pitch.location.latitude),
```

```
            longitude: parseFloat($scope.pitch.location.longitude)
```

```
        },
```

```
        PitchPrice: parseInt($scope.pitch.PitchPrice),
```

```
        Status: $scope.pitch.Status,
```

```
        GroundType: $scope.pitch.GroundType,
```

```
        Environment: $scope.pitch.Environment,
```

```
        'Bowling Machine': $scope.pitch.BowlingMachine
```

```
    };
```

```
    PitchService.createPitch(pitchData)
```

```
        .then(function(response) {
```

```

        $location.path('/pitches/' + response.data._id);
    })
    .catch(function(error) {
        console.error('Error creating pitch:', error);
        $scope.error = error.data.message || 'Failed to create pitch';
        $scope.loading = false;
    });
};
}));

```

N. app/controllers/analyticsController.js

```

angular.module('pitchBookingApp')
.controller('AnalyticsController', ['$scope', 'AnalyticsService',
function($scope, AnalyticsService) {
    $scope.loading = true;
    $scope.avgPriceData = [];
    $scope.topRatedData = [];

    AnalyticsService.getAvgPriceByGround()
        .then(function(response) {
            $scope.avgPriceData = response.data;
        })
        .catch(function(error) {
            console.error('Error loading price analytics:', error);
        });
}

```



```

AnalyticsService.getTopRated()
    .then(function(response) {
        $scope.topRatedData = response.data;
        $scope.loading = false;
    })
    .catch(function(error) {
        console.error('Error loading top rated pitches:', error);
        $scope.loading = false;
    });

```

```

$scope.getRatingArray = function(rating) {
    return new Array(Math.floor(rating || 0));
};
}]);

```

O. app/directives/pitchCard.js

```

angular.module('pitchBookingApp')
.directive('pitchCard', function() {
    return {
        restrict: 'E',
        scope: {
            pitch: '='
        },
        template: '<div class="card pitch-card">' +
            '<div class="card-body">' +
                '<h5 class="card-title">{{pitch.Pitch}}</h5>' +

```

```

        '<h6 class="card-subtitle mb-2 text-muted">{{pitch.Ground}}</h6>'
+
        '<p class="card-text">' +
            '<span class="badge bg-'
+ {{getStatusClass(pitch.Status)}} ">{{pitch.Status}}</span> ' +
            '<span class="badge bg-secondary">{{pitch.GroundType}}</span>'
+
            '<span class="badge bg-info">{{pitch.Environment}}</span>' +
            '</p>' +
            '<p class="price-tag">₹{{pitch.PitchPrice}}</p>' +
            '<a href="#!pitches/{{pitch._id}}" class="btn btn-primary">View
Details</a>' +
            '</div>' +
        '</div>',
    link: function(scope) {
        scope.getStatusClass = function(status) {
            switch(status) {
                case 'Open': return 'success';
                case 'Closed': return 'danger';
                case 'Under Maintenance': return 'warning';
                default: return 'secondary';
            }
        };
    }
};
});

```