

# 1. Express.js Project –KingUni Wiki

- When you are ready, delete the **node\_modules** folder, make sure all dependencies are listed in the **package.json** file
- You are provided with **HTML & CSS** resources, which you can **modify**
- Use **Express.js** as a back-end framework
- Use **MongoDB** as a database with **mongoose**
- You can use whatever **view engine** you like (Handlebars, EJS, Pug etc....)

## 2. Application Overview

Get familiar with the provided **HTML & CSS** and create an application that allows users to **create** and **read** encyclopedia **articles**. An anonymous user should be able to access the main page and **view any article**, as well as **register/login**. A registered user can **edit any article**.

## 3. Functional Requirements

The **Functionality Requirements** describe the functionality that the **Application** must support.

### Guests (Not Logged In)

The **application** should provide **Guest** (not logged in) users with the functionality to:

- **Login**
- **Register**
- **View any article**

### Users (Logged In)

The **application** should provide **Users** (logged in) with the functionality to:

- **View any articles**
- **Create new article**
- **Edit any article**
- **Delete only his own articles**
- **Logout**

## 4. Database Models

The **Database** of the **SoftUni Wiki** application needs to support **2 models**

### User

- **Username** - string (required), unique
- **Password** - string (required)
- **Created Articles** - a collection of **Articles**

## Article

- Title - string (required), unique, min 5 characters
- Description - string (required), min 20 characters
- Article Author - a User (ObjectId)
- Creation Date - Date (default now)

Implement the models with the **correct datatypes**

## 5. Application Pages

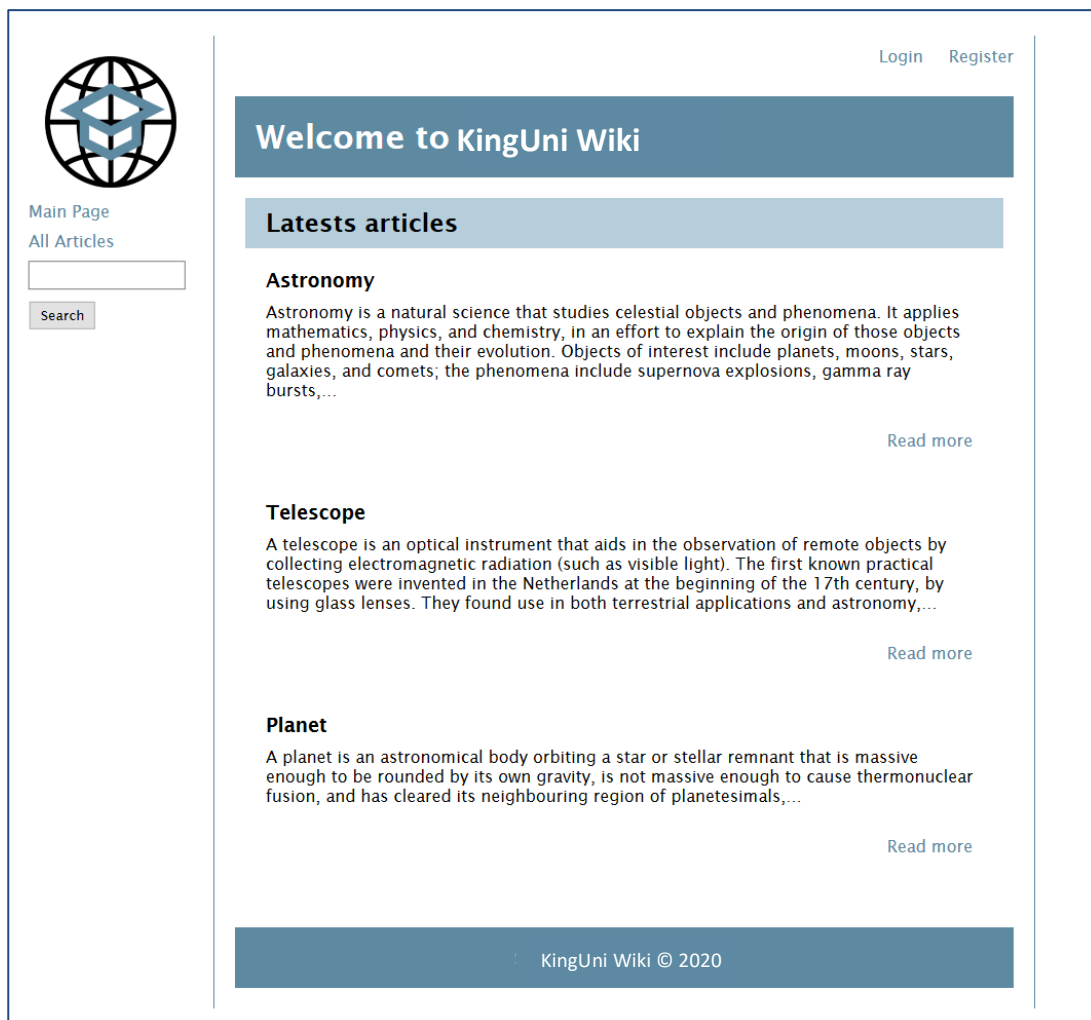
### Guest Pages

These are the pages and functionalities, accessible by **Guest (logged out users)**

#### Main Page (Logged Out User)

The **main page** should display all **navigation** menus, and the **latest 3 articles** (first 50 words of the content) Guest users have the option to login or register (*see provided HTML or screenshots below*).

Make sure only the **necessary** elements are displayed in the navigation menu and on every page, depending on the status of the user (logged in or not).



#### All Articles (Logged Out User)

Show a list of **all articles**, with a **links** to display their contents (**details article page**)



[Main Page](#)  
[All Articles](#)

[Login](#) [Register](#)

Welcome to KingUni Wiki

All articles

[Astronomy](#)  
[Galaxy](#)  
[Planet](#)  
[Star](#)  
[Telescope](#)

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### Login (Logged Out User)

With a **valid email** and **password**, a guest user should be **logged in**.



[Main Page](#)  
[All Articles](#)

[Login](#) [Register](#)

Welcome to KingUni Wiki

Login


Email:

Password:

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### Register (Logged Out User)

Register a user inside the database with **email** and **password**. Both **passwords** must **match**!



[Main Page](#)  
[All Articles](#)

[Login](#) [Register](#)

Welcome to KingUni Wiki

Register

Email:

Password:

Repeat password:

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## Article Details (Logged Out User)

Details article can be accessed by:

- **[Read more] button**

Welcome to KingUni Wiki

Latests articles

**Astronomy**

Astronomy is a natural science that studies celestial objects and phenomena. It applies mathematics, physics, and chemistry, in an effort to explain the origin of those objects and phenomena and their evolution. Objects of interest include planets, moons, stars, galaxies, and comets; the phenomena include supernova explosions, gamma ray bursts,...

- Directly from **all articles**


# Welcome to KingUni Wiki

## All articles

- Astronomy
- Galaxy
- Planet
- Star
- Telescope

Load the article from the database and display a page, containing its **title** and **content**.

**Hint:** For better looking formatting when outputting contents, interpret two-line breaks as a new paragraph.



Main Page  
All Articles

Search

Login Register

# Welcome to KingUni Wiki

## Astronomy

Astronomy is a natural science that studies celestial objects and phenomena. It applies mathematics, physics, and chemistry, in an effort to explain the origin of those objects and phenomena and their evolution. Objects of interest include planets, moons, stars, galaxies, and comets; the phenomena include supernova explosions, gamma ray bursts, and cosmic microwave background radiation. More generally, all phenomena that originate outside Earth's atmosphere are within the purview of astronomy. A related but distinct subject, physical cosmology, is concerned with the study of the Universe as a whole

Astronomy is one of the oldest of the natural sciences. The early civilizations in recorded history, such as the Babylonians, Greeks, Indians, Egyptians, Nubians, Iranians, Chinese, Maya, and many ancient indigenous peoples of the Americas performed methodical observations of the night sky. Historically, astronomy has included disciplines as diverse as astrometry, celestial navigation, observational astronomy and the making of calendars, but professional astronomy is now often considered to be synonymous with astrophysics

Professional astronomy is split into observational and theoretical branches. Observational astronomy is focused on acquiring data from observations of astronomical objects, which is then analyzed using basic principles of physics. Theoretical astronomy is oriented toward the development of computer or analytical models to describe astronomical objects and phenomena. The two fields complement each other, with theoretical astronomy seeking to explain observational results and observations being used to confirm theoretical results.

Astronomy is one of the few sciences where amateurs still play an active role, especially in the discovery and observation of transient phenomena. Amateur astronomers have made and contributed to many important astronomical discoveries, such as finding new comets.

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## User Pages

### Main Page (Logged in User)

The **main page** should display all **navigation** menus, and the **latest 3 articles** (first 50 **words** of the content) Registered users see a greeting with option to log out (*see provided HTML or screenshots below*).

Make sure only the **necessary** elements are displayed in the navigation menu and on every page, depending on the status of the user (logged in or not).



Main Page  
All Articles

Search

Create New Article

Welcome, Pesho! [\[Logout\]](#)

Welcome to KingUni Wiki

Latests articles

#### Astronomy

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[Read more](#)

#### Telescope

A telescope is an optical instrument that aids in the observation of remote objects by collecting electromagnetic radiation (such as visible light). The first known practical telescopes were invented in the Netherlands at the beginning of the 17th century, by using glass lenses. They found use in both terrestrial applications and astronomy,...

[Read more](#)

#### Planet

A planet is an astronomical body orbiting a star or stellar remnant that is massive enough to be rounded by its own gravity, is not massive enough to cause thermonuclear fusion, and has cleared its neighbouring region of planetesimals,...

[Read more](#)

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### All Articles (Logged in User)

Show a list of all articles, with a links to display their contents (details article page).



[Main Page](#)

[All Articles](#)

Search

[Create New Article](#)

Welcome, Pesho! [\[Logout\]](#)

## Welcome to KingUni Wiki

### All articles

[Astronomy](#)

[Galaxy](#)

[Planet](#)

[Star](#)

[Telescope](#)

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### Create New Article (Logged in User)

With valid **title** and **content**, a new article should be created in the database



Welcome, Pesho! [\[Logout\]](#)

## Welcome to KingUni Wiki

### Create new article

Article title

Content

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[Main Page](#)

[All Articles](#)

[Create New Article](#)

## Article Details (Logged in User)

**Details** article can be accessed by:

- **[Read more] button**

## Welcome to KingUni Wiki

### Latests articles

#### Astronomy

Astronomy is a natural science that studies celestial objects and phenomena. It applies mathematics, physics, and chemistry, in an effort to explain the origin of those objects and phenomena and their evolution. Objects of interest include planets, moons, stars, galaxies, and comets; the phenomena include supernova explosions, gamma ray bursts,...

[Read more](#)

- Directly from **all articles**



# Welcome to KingUni Wiki

## All articles

Astronomy

Galaxy

Planet

Star

Telescope

Load the article from the database and display a page, containing its **title** and **content**.

**Hint:** For better looking formatting when outputting contents, interpret two-line breaks as a new paragraph.

**[Edit]** button should be shown. **[Delete]** button should be shown only if the currently logged in user is the author of that article.

[Main Page](#)[All Articles](#)[Create New Article](#)Welcome, Pesho! [\[Logout\]](#)

## Welcome to KingUni Wiki

### Astronomy

[\[delete\]](#) [\[edit\]](#)

Astronomy is a natural science that studies celestial objects and phenomena. It applies mathematics, physics, and chemistry, in an effort to explain the origin of those objects and phenomena and their evolution. Objects of interest include planets, moons, stars, galaxies, and comets; the phenomena include supernova explosions, gamma ray bursts, and cosmic microwave background radiation. More generally, all phenomena that originate outside Earth's atmosphere are within the purview of astronomy. A related but distinct subject, physical cosmology, is concerned with the study of the Universe as a whole

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Astronomy is one of the few sciences where amateurs still play an active role, especially in the discovery and observation of transient phenomena. Amateur astronomers have made and contributed to many important astronomical discoveries, such as finding new comets.

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### Edit Article

An article can be edited by any **logged in user**. Only the article's description can be changed.

[Main Page](#)[All Articles](#)[Create New Article](#)Welcome, Pesho! [\[Logout\]](#)

## Welcome to KingUni Wiki

### Edit article

Article title

**Astronomy**

Content

~~Astronomy is a natural science that studies ... ?~~

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### Delete Article

Only article author should be seen the **[Delete]** button. Here you have **no view**, just **delete** the current article from the database and to the **redirect main page**.

## 6. Security Requirements

The **Security Requirements** are mainly **access** requirements. Configurations about which users can access specific functionalities and pages.

- **Guest** (not logged in) users can access **Main** page and functionality
- **Guest** (not logged in) users can access **Login** page and functionality
- **Guest** (not logged in) users can access **Register** page and functionality
- **Guest** (not logged in) users can access **All Articles** page and functionality
- **Guest** (not logged in) users can access **Details Article** page
- **Users** (logged in) can access **Main** page and functionality
- **Users** (logged in) users can access **All Articles** page and functionality
- **Users** (logged in) can access **Create Course** page and functionality

- **Users** (logged in) can access **Logout** functionality.
- **Users** (not logged in) users can access **Details Article** page and functionality
- **All Users** (logged in or not) can **Edit** article
- **Only Article Author** (article creator) can **Delete** the current article
- **All Users** (logged in or not) can **Search** article

## 7. Validation and Error Handling

The application should notify the users about result of their actions.

### Login/Register



[Main Page](#)  
[All Articles](#)

[Login](#)
[Register](#)

## Welcome to KingUni Wiki

Both passwords should be equal...

### Register

Email:

Password:

Repeat password:

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### Create New Article

An article must have a **title**, **description**, **author** and **editor's collection**.



[Main Page](#)

[All Articles](#)

Search

[Create New Article](#)

Welcome, Pesho! [\[Logout\]](#)

## Welcome to KingUni Wiki

*Article description should be at least 20 characters long...*

### Create new article

Article title

ExpressJS

Content

Invalid content... :(

Submit

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## 8. \*Bonus

When a user enters a search criteria, look in the database for **partial matches** and return a list of links to all articles, whose **title contains the input**.



[Main Page](#)  
[All Articles](#)

[Login](#) [Register](#)

## Welcome to KingUni Wiki

### Search results for: "planet"

[Planet](#)  
[Planet Of The Apes](#)  
[Planet X](#)

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