

Microsoft Engage 2021

Shumbul Arifa

arifas18922@gmail.com

The Challenge

Build a functional prototype of a platform that gives students an array of digital academic and social tools to stay engaged with their studies, peers and broader university community during pandemic.

Solution

Built a fully functional website for allowing students to self-study and share notes with other peers. The platform is basically an all-in-one study and note-sharing portal for students.

Description:

The website is a portal for studying having all the basic features that a student might need while studying. It also allows users to share their notes with other users.

Technologies Used:

Django, HTML, CSS, JavaScript

Database:

SQLite

Deployed on:

Azure portal

Links:

Github repository: <https://github.com/shumbul/Microsoft-Engage>

Website: <http://engage-portal.azurewebsites.net/>

Notable Features:

- Social accounts authentication while signing up and signing in
- Pending ToDos and Homeworks are displayed on profile
- Publically available features (works without signing in):
 - Youtube search
 - Books search
 - Dictionary word finding
 - Wikipedia search
 - Conversion of length and mass
- Main features requiring sign in:
 - Notes creating and sharing
 - Homework creating and setting a deadline
 - Todo creating and setting a deadline

ER Diagram

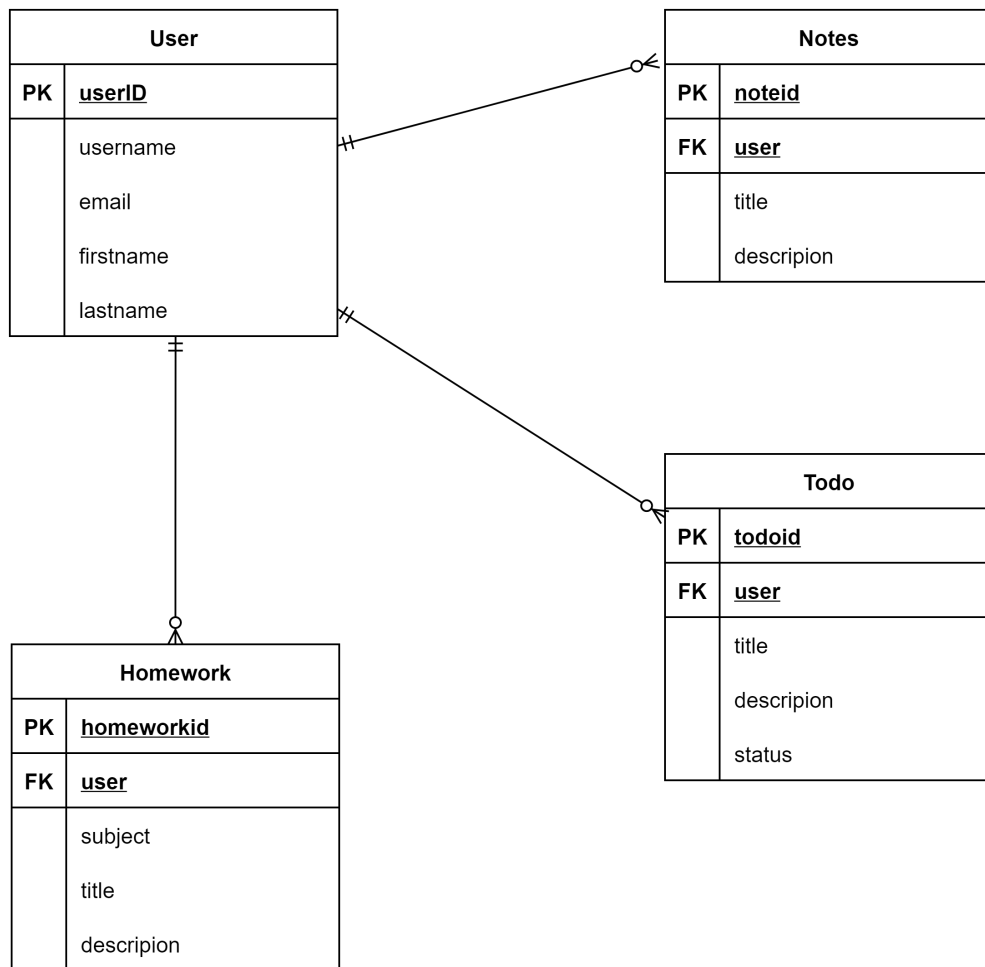


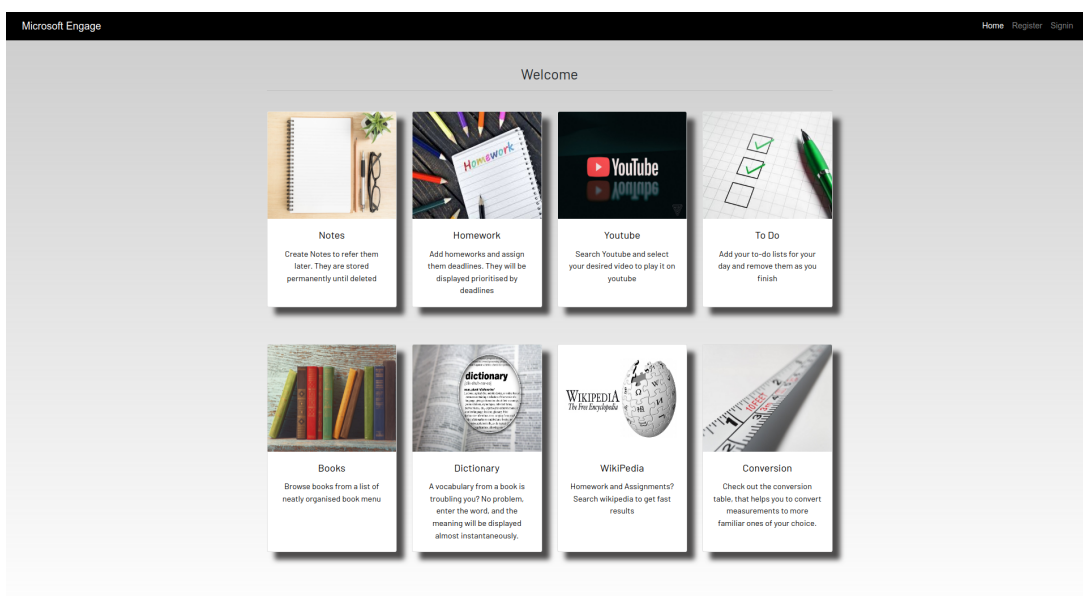
Figure: ER Diagram of the models in the Engage Portal

HOME PAGE

This is the home page or dashboard of the website having all the tools displayed in the form of tiles. It is accessible globally, and the user need not be signed in to access this page. Although, a user has to be signed in in order to access Notes, Homework, and Todo. Thus, when any of these is selected it redirects the user to the sign-in page. The default header of the template includes Home, Register, Sign-in for anonymous users and Home, Profile, Options (dropdown), and Sign-out for a logged-in user.

TOOLS:

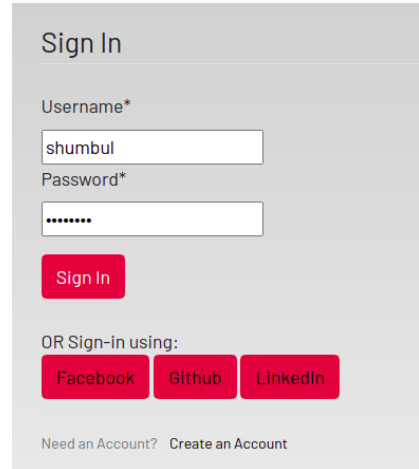
1. Notes:
 - a. Create note
 - b. Delete note
 - c. Share note with other users
2. Homework:
 - a. Add homework
 - b. Update homework
 - c. Delete homework
3. Todo:
 - a. Create task
 - b. Update task
 - c. Delete task
4. Books
5. Youtube
6. Wikipedia
7. Dictionary
8. Conversion:
 - a. Convert mass units
 - b. Convert length units



SIGN-IN and REGISTER

1. Sign-in:

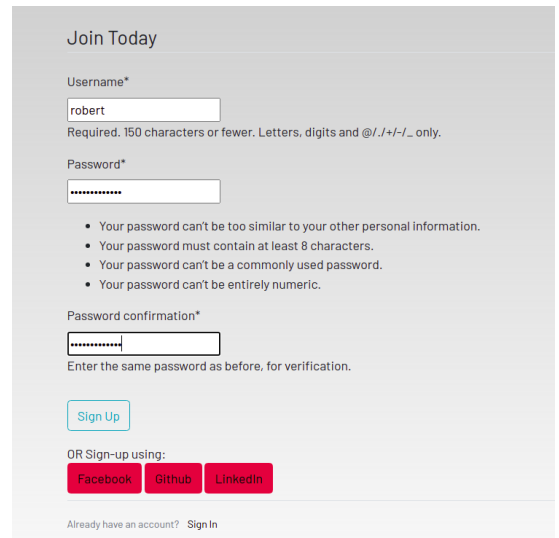
- a. Takes up the fields:
 - i. Username
 - ii. Password
- b. Other ways to sign-in is using:
 - i. Facebook
 - ii. Github
 - iii. LinkedIn
- c. An option to Create a new account



The 'Sign In' form is a light gray rectangular box. At the top, it has the title 'Sign In' in a dark gray font. Below the title, there are two input fields: 'Username*' and 'Password*'. The 'Username*' field contains the text 'shumbul'. The 'Password*' field is filled with dots. Below these fields is a red button with the text 'Sign In'. Underneath the button, it says 'OR Sign-in using:' followed by three red buttons labeled 'Facebook', 'Github', and 'LinkedIn'. At the bottom of the form, there is a link that says 'Need an Account? Create an Account'.

2. Register: To register a new user

- a. Take up the fields:
 - i. Username
 - ii. Password
 - iii. Password Confirmation
- b. Other ways to sign-up are using:
 - i. Facebook
 - ii. Github
 - iii. LinkedIn
- c. An option to Sign in to an existing account



The 'Join Today' form is a light gray rectangular box. At the top, it has the title 'Join Today' in a dark gray font. Below the title, there are three input fields: 'Username*', 'Password*', and 'Password confirmation*'. The 'Username*' field contains the text 'robert'. Below the 'Username*' field, there is a small text that says 'Required. 150 characters or fewer. Letters, digits and @/./+/-/_ only.'. The 'Password*' field is filled with dots. Below the 'Password*' field, there are four bullet points: 'Your password can't be too similar to your other personal information.', 'Your password must contain at least 8 characters.', 'Your password can't be a commonly used password.', and 'Your password can't be entirely numeric.'. The 'Password confirmation*' field is filled with dots. Below the 'Password confirmation*' field, there is a small text that says 'Enter the same password as before, for verification.'. Below these fields is a light blue button with the text 'Sign Up'. Underneath the button, it says 'OR Sign-up using:' followed by three red buttons labeled 'Facebook', 'Github', and 'LinkedIn'. At the bottom of the form, there is a link that says 'Already have an account? Sign In'.



PROFILE

Displays all the Todos and Due Homeworks for a user

NOTE: This functionality is only accessible to logged-in users


The page has two tables as shown in the diagram below, and each of those has a check-box and delete button, and also a corresponding button to go to the respective pages.

ToDos

#	Title	Status	Delete
1	Wake up early	<input type="checkbox"/> Mark as Completed	
2	Submit Microsoft Engage Project	<input type="checkbox"/> Mark as Completed	

To Do

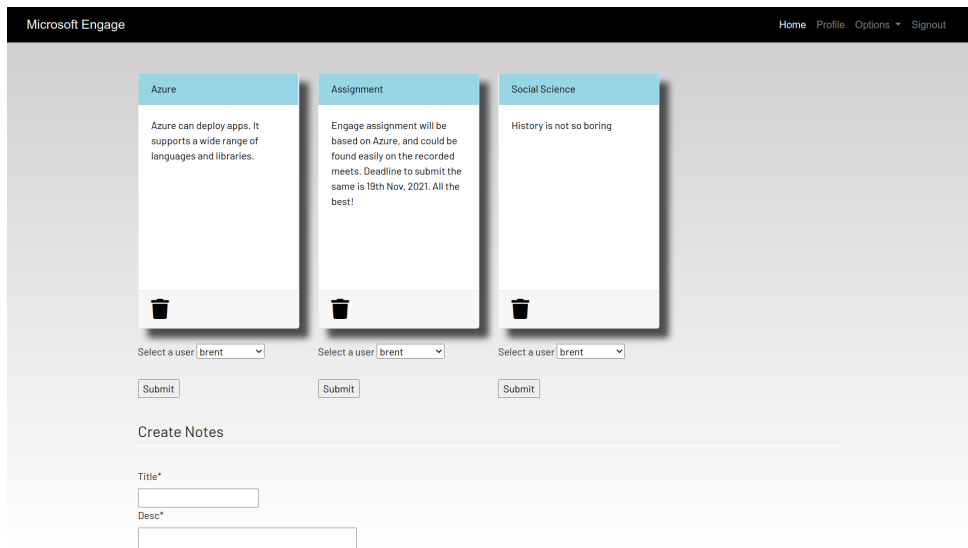
Due Homeworks

#	Subject	Title	Description	Due	Status	Delete
1	Project Submission	Engage Project	Completed Deploying. Now make a video and submit.	Nov. 28, 2021, midnight	<input type="checkbox"/> Mark as Completed	

Homeworks

NOTES

Allows creating, deleting, and sharing of notes with other users



Create Notes:

- Takes up the fields Title and Description of a note
- Success message pops up once a note is created





This is a close-up of the 'Create Notes' form. It has a title 'Create Notes' at the top. Below it are two input fields: 'Title*' and 'Desc*'. The 'Desc*' field is a larger text area. At the bottom of the form is a blue 'Create' button.

Notes:

- Displayed in the form of tiles
- Deleting a note is allowed
- Sharing the note to other users is allowed
- Message pops up once a note is shared or deleted

HOMEWORKS

Displays homeworks and allows creating, deleting, and checking the completion status of homeworks

#	Subject	Title	Description	Due Date	Status	Delete
1	Wrong cumulative score	Correction	Lorum Ipsum	Nov. 28, 2021, 9 a.m.	<input checked="" type="checkbox"/> Mark as Completed	
2	Economics	Assignment	Questions in Eco	Nov. 19, 2021, midnight	<input checked="" type="checkbox"/> Mark as Completed	
3	Physical Education	Final assignment	Phy Edu. final assignment - 35 marks Submit in PE Room	Dec. 18, 2021, midnight	<input checked="" type="checkbox"/> Mark as Completed	
4	Project Submission	Engage Project	Completed Deploying. Now make a video and submit.	Nov. 28, 2021, midnight	<input type="checkbox"/> Mark as Completed	

Create Homeworks:

- Takes up the fields Title, Description, Due Date, Status
- Success message pops up once homework is created

Create Homework


Subject*

Title*

Desc*

Complete Microsoft Azure tutorials from your

Due*



☒ Is finished




Create

Notes:

- Displayed in the form of a table
- Checking the completion status of homework is allowed
- Deleting a homework is allowed
- Message pops up once an item is deleted

TODO

Displays items in todo list, and allows creating Todo items

#	Title	Description	Status	Delete
1	Wake up early	at 6 am	<input type="checkbox"/> Mark as Completed	
2	Submit Microsoft Engage Project	It was fun building this website! Now submit on: https://microsoft.acehacker.com/fte2021/#sprint	<input type="checkbox"/> Mark as Completed	
3	Go to bed early	at 11 pm	<input checked="" type="checkbox"/> Mark as Completed	

Create Todo:

- Takes up the fields Title, Description, Status
- Success message pops up once a todo item is created

Create Todo

Title*

Desc*

☐ Is finished

Create

Notes:

- Displayed in the form of a table
- Checking the completion status of a todo item is allowed
- Deleting a todo item is allowed
- Message pops up once an item is deleted

DICTIONARY

Allows searching words from the dictionary

Dictionary


Enter any word to get the phonetics, definition and an example for the word

Enter To Search *

Submit

girl

ge:l



Definition: a female child.

Example: a six-year-old girl

Synonyms: female child young person youngster teenager adolescent young woman young lady juvenile minor junior student schoolgirl daughter lass lassie bairn
pickney kid kiddie tot brat chit

Features:

- Pronunciation
- Phonetics
- Definition
- Example for the word
- Synonyms

WIKIPEDIA

Displays pages from Wikipedia of the searched keywords

Search articles in wikipedia

enter the search query to obtain the results

Enter (without any space)
Enter To Search *

Submit

Microsoft

Microsoft
<https://en.wikipedia.org/wiki/Microsoft>

Microsoft Corporation is an American multinational technology corporation which produces computer software, consumer electronics, personal computers, and related services. Its best known software products are the Microsoft Windows line of operating systems, the Microsoft Office suite, and the Internet Explorer and Edge web browsers. Its flagship hardware products are the Xbox video game consoles and the Microsoft Surface lineup of touchscreen personal computers. Microsoft ranked No. 21 in the 2020 Fortune 500 rankings of the largest United States corporations by total revenue; it was the world's largest software maker by revenue as of 2016. It is considered one of the Big Five companies in the U.S. information technology industry, along with Amazon, Google (Alphabet), Apple, and Facebook (Meta). Microsoft (the word being a portmanteau of "microcomputer software") was founded by Bill Gates and Paul Allen on April 4, 1975, to develop and sell BASIC interpreters for the Altair 8800. It rose to dominate the personal computer operating system market with MS-DOS in the mid-1980s, followed by Microsoft Windows. The company's 1986 initial public offering (IPO), and subsequent rise in its share price, created three billionaires and an estimated 12,000 millionaires among Microsoft employees. Since the 1990s, it has increasingly diversified from the operating system market and has made a number of corporate acquisitions, their largest being the acquisition of LinkedIn for \$26.2 billion in December


BOOKS

Allows searching and browsing any book

Search books and browse your favorite

just enter the search query to obtain the results

Enter To Search *




Mastering Microsoft Azure Infrastructure Services

[None](#)

Understand, create, deploy, and maintain a public cloud using Microsoft Azure. Mastering Microsoft Azure Infrastructure Services guides you through the process of creating and managing a public cloud and virtual network using Microsoft Azure. With step-by-step instruction and clear explanation, this book equips you with the skills required to provide services both on-premises and off-premises through full virtualization, providing a deeper understanding of Azure's capabilities as an infrastructure service. Each chapter includes online videos that visualize and enhance the concepts presented in the book, and access to a Windows app that provides instant Azure updates and demonstrates the process of going from on-premises to public cloud via Azure. Coverage includes storage customization, connectivity, virtual networks, backing up, hybrid environments, System Center management, and more, giving you everything you need to understand, evaluate, deploy, and maintain environments that utilize Microsoft Azure. Understand cost, options, and applications of Infrastructure as a Service (IaaS). Enable on- and off-premises connectivity to Azure. Customize Azure templates and management processes. Exploit key technologies and embrace the hybrid environment. Mastering Microsoft Azure Infrastructure Services is your total solution.

Category: Computers
384



Pro PowerShell for Microsoft Azure

[None](#)

This book is written for Windows professionals who are familiar with PowerShell and want to learn to build, operate, and administer their Windows workloads in the Microsoft cloud. Pro PowerShell for Microsoft Azure is packed with practical examples and scripts, with easy-to-follow explanations for a wide range of day-to-day needs and essential administration tasks. Author Sherif Talaat begins by explaining the fundamental concepts behind the Microsoft Azure platform and how to get started configuring it through PowerShell. Readers will find out how to

YOUTUBE

Allows searching any video on Youtube

Search Videos in Youtube


search videos and select any video to open in youtube

Enter To Search *

Submit

बस ये वीडियो है तो और क्यों ?

COMPLETE MS-WORD TUTORIAL FOR BEGINNERS

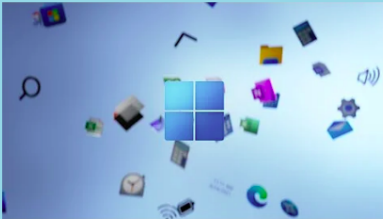


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CONVERSION

Conversion of basic units - Length and Mass

Measurement*

☒ Length ☐ Mass

Select

Enter the Number

Yard ▼

Yard ▼

13 foot = 4.333333333333333 yard

Convert

FUTURE WORK

1. Creating groups/friends facility.
2. Dictionary search on highlighted texts on any page.
3. Youtube embedded media player on the youtube page.
4. Creating an API for displaying university announcements on the home page.
5. A public profile to users where the user can keep selected data public or available to friends.