

Mini Project

On

LangMate

Submitted in partial fulfilment of the requirements

of the degree of

Master of Computer Applications

by

Student Name(s)

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under the guidance of

Supervisor (s):

Mrs. Vaishali Gatty



Department of Master of Computer Applications

Vivekanand Education Society's Institute of Technology

2022-2023



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Department of Master of Computer Applications

CERTIFICATE

This is to certify that **Mr.Mohit Tendolkar, Mr.Anish Rane,Mr.Omkar Hande** of First Year Master Of Computer Applications studying under the University of Mumbai have satisfactorily presented the Mini Project entitled **LangMate** as a part of the MINI-PROJECT for Semester-I under the guidance of **Mrs. Vaishali Gatty** in the year 2022-2023.

Date: 20th March 2023

Mr. Shivkumar Goel
(Name and sign)
Head of Department

Mrs. Vaishali Gatty
(Name and sign)
Supervisor/Guide



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Department of Master of Computer Applications

DECLARATION

We, **Mr.Mohit Tendolkar,Mr.Anish Rane and Mr.Omkar Hande** from *class FYMCA DIV A* declare that this project represents our ideas in our own words without plagiarism and wherever others' ideas or words have been included, we have adequately cited and referenced the original sources.

We also declare that we have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in our project work.

We declare that we have maintained a minimum 75% attendance, as per the University of Mumbai norms.

We understand that any violation of the above will be cause for disciplinary action by the Institute.

Yours Faithfully

(Name & Signature of Students with Date)



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Acknowledgement

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We are deeply indebted to Head of the Master of Computer Applications Department **Dr. Shivkumar Goel** and our Principal **Dr. (Mrs.) J.M. Nair** for giving us this valuable opportunity to do this project.

We express our hearty thanks to them for their assistance without which it would have been difficult in finishing this project synopsis and project review successfully.

We convey our deep sense of gratitude to all teaching and non-teaching staff for their constant encouragement, support and selfless help throughout the project work. It is a great pleasure to acknowledge the help and suggestion, which we received from the Department of Master of Computer Applications.

We wish to express our profound thanks to all those who helped us in gathering information about the project. Our families too have provided moral support and encouragement several times.



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1.Introduction

1.1 Introduction

Welcome to LangMate. This project is a combination of a translator, a dictionary, and a language learning platform, designed to help users improve their language skills and break down language barriers.

Our translator feature allows you to quickly and accurately translate words, phrases, and sentences from one language to another. Our dictionary feature provides you with detailed definitions, synonyms, and usage examples to help you expand your vocabulary and improve your understanding of a language. In addition this platform helps you in learning new languages.

1.2 Problem Statement

Language barriers can often hinder effective communication and limit opportunities for personal and professional growth. In today's globalized world, there is an increasing demand for individuals to be proficient in multiple languages. However, many traditional language learning methods can be time-consuming, costly, and inaccessible to some. Our project aims to address this problem by providing a convenient and comprehensive platform that combines translation and dictionary tools with language learning resources. Our goal is to make language learning more accessible, efficient, and enjoyable for all.

1.3 Objectives of the project

1. To make it easy for users to translate and understand foreign languages.
2. To provide resources that help users learn a new language efficiently and effectively.
3. To offer an affordable and convenient language learning platform that can be accessed from anywhere.
4. To continuously improve and update the platform to better meet the needs of language learners.



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1.4 Functionalities

1. **Translation:** Our platform allows users to translate text from one language to another accurately and quickly. You can enter text to translate speech in real-time.
2. **Dictionary:** Our platform includes a comprehensive dictionary with definitions, synonyms, and examples of usage for words and phrases in different languages. You can look up words to expand your vocabulary or understand the meaning of a word in context.
3. **Exercise and Quizzes:** Our platform includes interactive exercises and quizzes that help users learn, practice and improve their language skills.

1.5 Scope

The app incorporates three main features: a translator, a dictionary, and language learning resources.

The translator feature would allow users to enter text in one language and have it automatically translated into another language.

The dictionary feature would allow users to look up the meanings of words in different languages.

The language learning resources would include a variety of materials to help users learn new languages.



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2. Literature Survey

2.1 Survey of Duolingo

Duolingo is a popular language learning application that has gained widespread popularity in recent years. A survey of Duolingo application would involve an examination of the features and design of the app, as well as a review of existing research on its effectiveness and user experience.

1. **Features and Design:** Duolingo offers a range of features designed to help users learn a new language, including lessons on vocabulary, grammar, reading, writing, and speaking. The app also includes gamification elements, such as rewards, badges, and leaderboards, to increase motivation and engagement among users. The design of the app is user-friendly and visually appealing, with bright colors and cartoon-like illustrations.
2. **Effectiveness:** Research on the effectiveness of Duolingo has yielded mixed results. Some studies have found that Duolingo can be an effective tool for language learning, particularly for beginners, while others have found that it may not be as effective as traditional classroom instruction or other language learning methods.
3. **User Experience:** Duolingo is generally well-received by users, who appreciate its user-friendly design, gamification elements, and the ability to track their progress. However, some users have criticized the app for its limited scope and lack of personalized instruction. Some users have also reported frustration with the app's repetition of certain lessons and the difficulty of advancing to higher levels.
4. **Pedagogical Approach:** Duolingo's pedagogical approach has been the subject of some criticism, particularly for its reliance on translation exercises and the lack of explicit instruction on grammar rules. Some language educators argue that Duolingo's approach does not provide a deep understanding of the language and can reinforce errors or misunderstandings.
5. **Accessibility:** Duolingo is accessible to a wide range of users, with versions available in dozens of languages and the ability to customize the app to individual learning preferences. However, some users with disabilities or limited access to technology may face barriers to using the app effectively.

Overall, a survey of Duolingo application suggests that it is a popular and well-designed tool for language learning, but its effectiveness may depend on individual learner preferences and needs. Further research is needed to fully understand the potential benefits and drawbacks of Duolingo and other language learning apps.



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2.2 Limitations of Duolingo

While Duolingo is a popular language learning application, there are several limitations to its effectiveness and usefulness as a language learning tool. Here are some of the most commonly cited limitations:

1. **Limited Focus on Grammar:** Duolingo's approach to teaching grammar is often criticized for being incomplete and not providing enough depth for learners to develop a thorough understanding of the language. This can result in learners struggling with more advanced concepts and not being able to express themselves accurately in the language.
2. **Limited Vocabulary:** Duolingo's vocabulary is limited, especially for more advanced learners. This can lead to learners struggling to express more complex ideas and not having enough words to accurately communicate in the language.
3. **Limited Cultural Content:** Duolingo's focus is on language learning, but language is often closely tied to culture. The app provides limited cultural context, which can result in learners not understanding the nuances of the language and its cultural significance.
4. **Lack of Personalization:** Duolingo's approach is one-size-fits-all, which means that it doesn't always cater to the needs of individual learners. This can result in learners feeling bored or frustrated and not progressing as quickly as they would like.
5. **Overreliance on Translation Exercises:** Duolingo often relies on translation exercises to teach language, which can result in learners not being able to think in the language and only translating from their native language. This can lead to a lack of fluency and difficulty expressing oneself naturally in the language.
6. **Gamification May Be Superficial:** While gamification is often cited as a strength of Duolingo, it can also be criticized for creating a superficial learning environment that prioritizes points and rewards over deeper learning and understanding.

Overall, while Duolingo is a useful tool for language learning, its limitations should be taken into consideration when using it as a primary language learning tool. Supplementing with other resources and methods can help overcome these limitations and provide a more well-rounded language learning experience.



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2.3 Mini Project contribution to the society

LangMate can potentially address several societal problems by promoting linguistic and cultural diversity, enhancing cross-cultural communication, and facilitating educational opportunities for individuals who may not have access to traditional language learning resources. Here are some examples of how LangMate can address societal problems:

1. **Promoting Linguistic and Cultural Diversity:** LangMate can promote the preservation and celebration of minority and endangered languages, which can help preserve cultural heritage and foster greater appreciation and understanding of different cultures. By making language learning accessible and convenient, language learning applications can encourage more people to learn and appreciate the richness of different languages and cultures.
2. **Enhancing Cross-Cultural Communication:** LangMate can facilitate communication and understanding between individuals from different linguistic and cultural backgrounds. By providing tools and resources for learning and practicing languages, language learning applications can help individuals develop the language skills necessary to communicate effectively with people from different cultural backgrounds, thereby reducing misunderstandings and promoting harmony.
3. **Facilitating Educational Opportunities:** LangMate can provide educational opportunities for individuals who may not have access to traditional language learning resources, such as individuals living in remote or underserved areas, or those who cannot afford to attend traditional language schools. By making language learning accessible and affordable, language learning applications can help individuals acquire the language skills necessary to pursue educational and professional opportunities.

Overall, LangMate have the potential to address several societal problems by promoting linguistic and cultural diversity, enhancing cross-cultural communication, and facilitating educational opportunities. By making language learning accessible, convenient, and engaging, language learning applications can help create a more interconnected and understanding world.



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3. Analysis and Design

3.1 Analysis of the system

1. Features:

- The application provides the facility of translation to any language available.
- It provides dictionary to search the meaning of a difficult word with its use in a sentence and its parts of speech.
- It provides a text-to-speech features also it provides copy to clipboard feature.
- It has quiz to improve users knowledge and intellect in that particular language even the user could get an overall score of the quiz.

2. User Interface:

The application is very user-friendly, It is easy to navigate and use, it has a clear and visual design

3. Pedagogical Approach:

- It focuses on translation exercise as well as more interactive and immersive language learning experiences.
- It provides clear and explicit instruction on grammar and pronunciation.

4. User Experience:

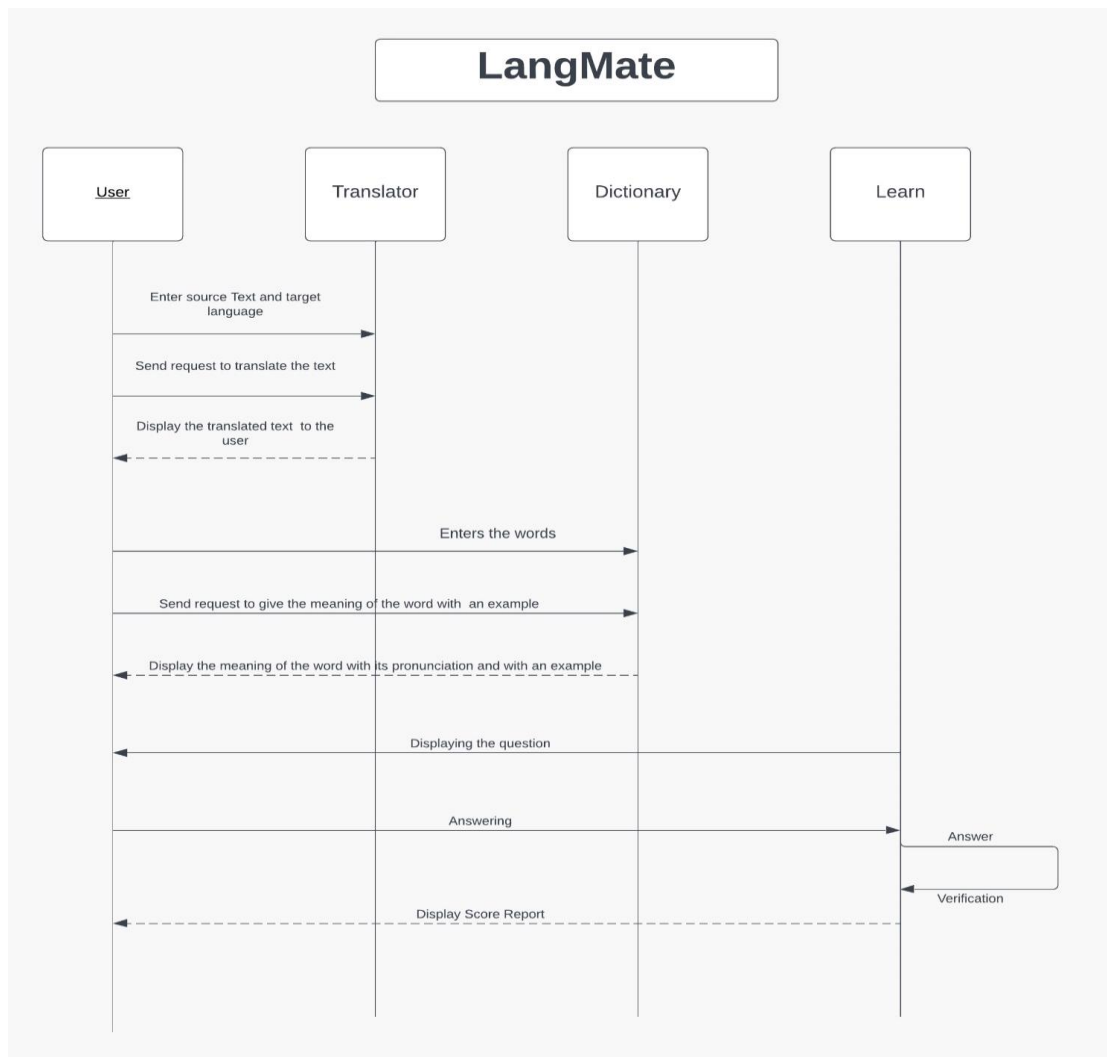
The application is engaging, motivating and helpful in users language learning journey.

5. Limitations:

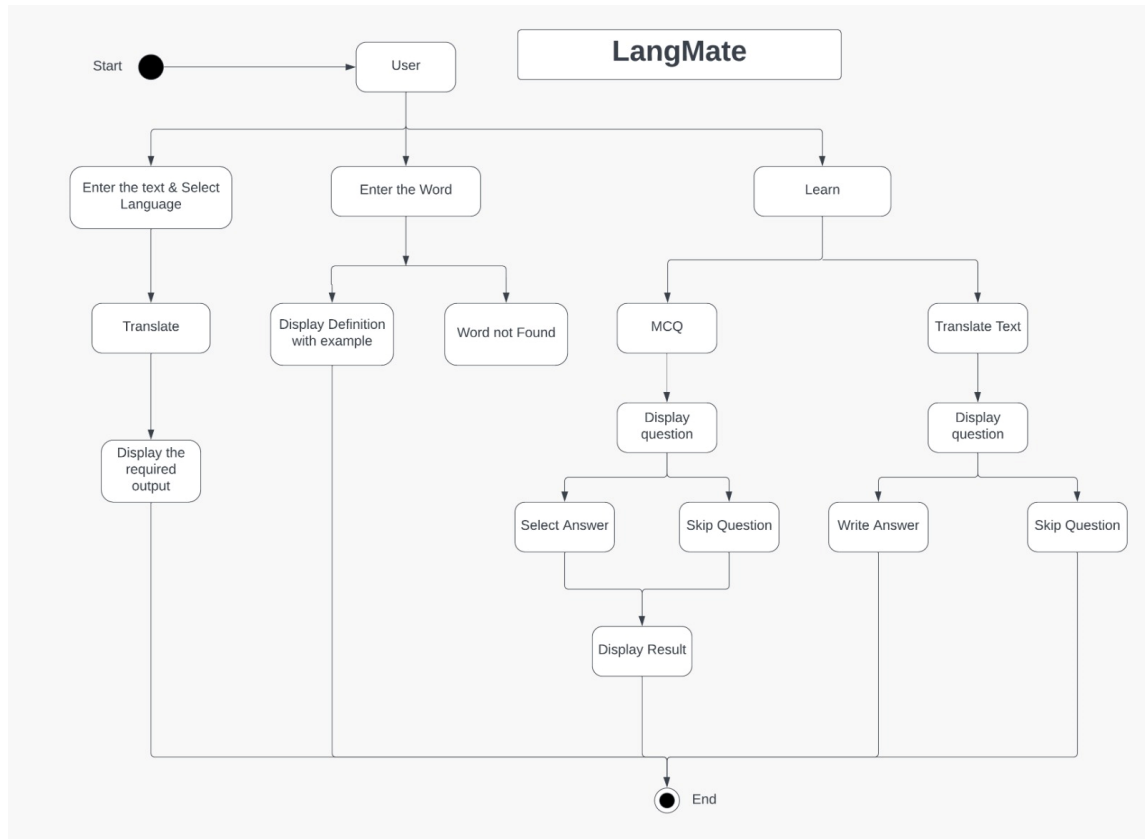
- There is no virtual keypad for languages other than English.
- The accuracy of the translator is not up to the mark.
- There are few words whose meaning are not shown in dictionary.

3.2 Architecture of the proposed system

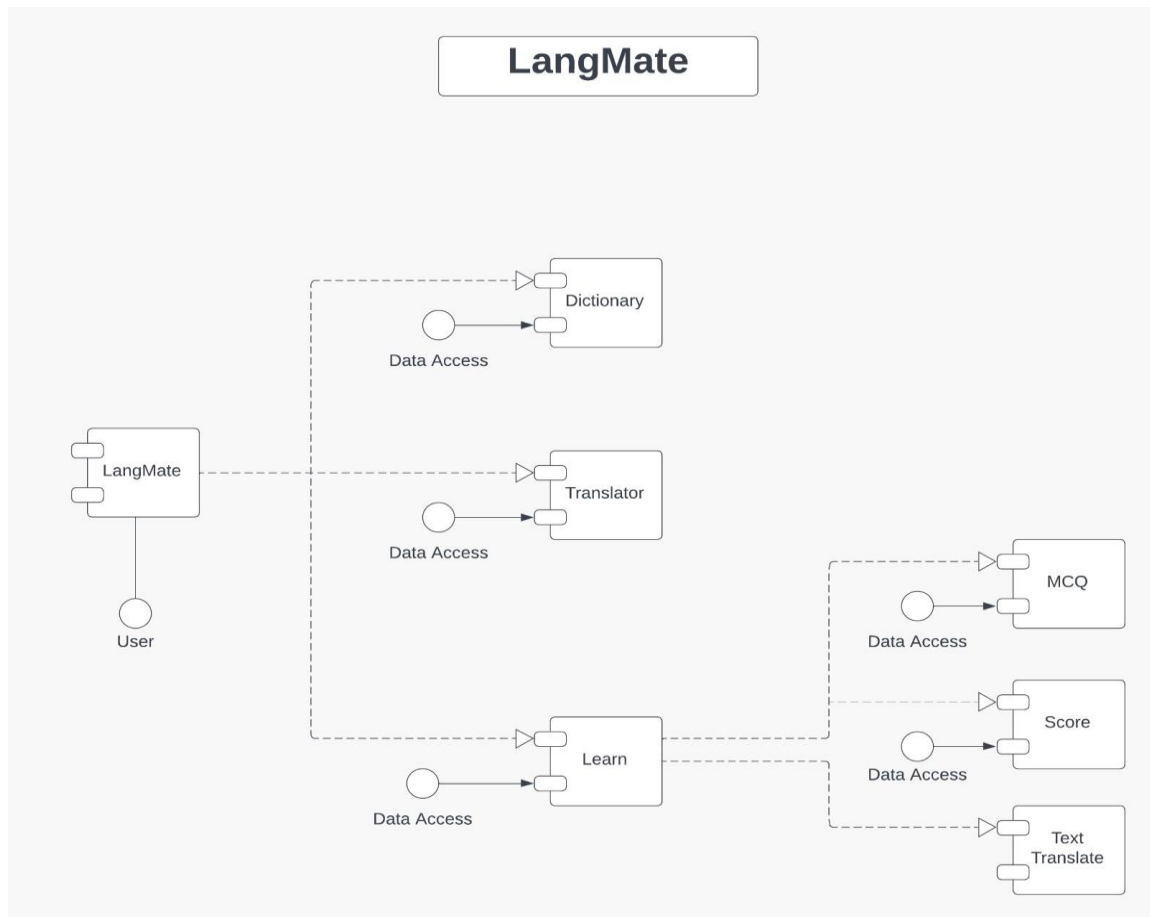
3.2.1 Sequence Diagram:



3.2.2 Activity Diagram:



3.2.3 Component Diagram:



3.3 Hardware and Software Requirements

Hardware requirements:

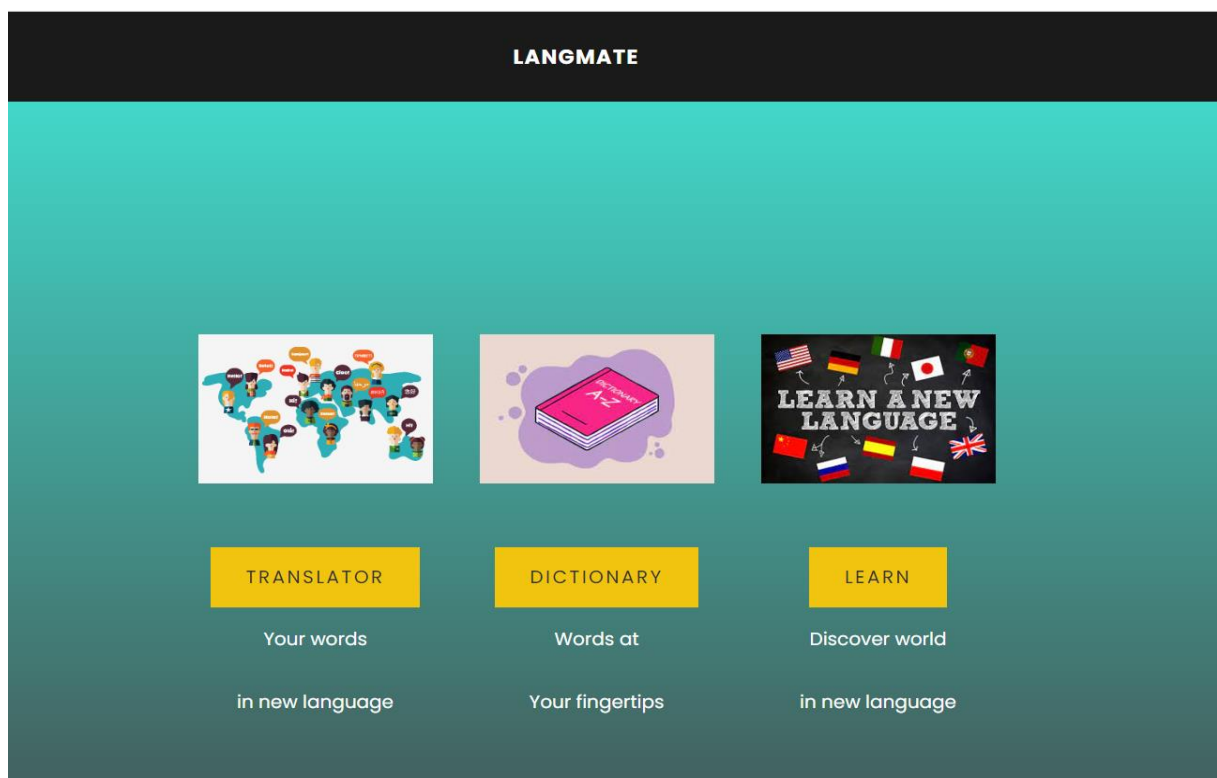
- A computer or mobile device with a modern web browser (such as Chrome, Firefox, or Safari) and an internet connection.
- Should have a good quality speaker to enjoy the benefit of text-to-speech.
- Ram should be around 2gb for smooth experience.

Software Requirements:

- Operating System: Windows 7 Onwards.
- A programming languages such as HTML, CSS, JavaScript, to develop the application.

3.4 Experiments and Results

Our First page:-





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Translator :-

Source code:-

```
const fromText = document.querySelector(".from-text"),
    toText = document.querySelector(".to-text"),
    exchangeIcon = document.querySelector(".exchange"),
    selectTag = document.querySelectorAll("select"),
    icons = document.querySelectorAll(".row i");
translateBtn = document.querySelector("button"),

    selectTag.forEach((tag, id) => {
        for (let country_code in countries) {
            let selected = id == 0 ? country_code == "en-GB" ? "selected" : "" : country_code ==
"hi-IN" ? "selected" : "";
            let option = `
```




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```
toText.value = data.responseData.translatedText;
data.matches.forEach(data => {
  if (data.id === 0) {
    toText.value = data.translation;
  }
});
toText.setAttribute("placeholder", "Translation");
});
});

icons.forEach(icon => {
  icon.addEventListener("click", ({ target }) => {
    if (!fromText.value || !toText.value) return;
    if (target.classList.contains("fa-copy")) {
      if (target.id == "from") {
        navigator.clipboard.writeText(fromText.value);
      } else {
        navigator.clipboard.writeText(toText.value);
      }
    } else {
      let utterance;
      if (target.id == "from") {
        utterance = new SpeechSynthesisUtterance(fromText.value);
        utterance.lang = selectTag[0].value;
      } else {
        utterance = new SpeechSynthesisUtterance(toText.value);
        utterance.lang = selectTag[1].value;
      }
      speechSynthesis.speak(utterance);
    }
  });
});
```

```
let textContainer = document.querySelector(".from-text");
let deleteKey = document.querySelector(".delete");
let enterKey = document.querySelector(".enter");
let spaceKey = document.querySelector(".space");
let capsLock = document.querySelector(".capslock");
let allKey = document.querySelectorAll(".key");
let isCaps = false;
```

```
deleteKey.addEventListener("click", function () {
  let textContainerContent = textContainer.innerHTML;
  if (textContainerContent.length == 0) {
    return;
  }
});
```



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```
}
console.log(textContainerContent);
let newContent = textContainerContent.slice(0, textContainerContent.length - 1);
textContainer.innerHTML = newContent;
})

enterKey.addEventListener("click", function () {
    let content = textContainer.innerHTML;
    let newContent = content + "\n";
    textContainer.innerHTML = newContent;
})

spaceKey.addEventListener("click", function () {
    let content = textContainer.innerHTML;
    let newContent = content + '\u00A0';
    textContainer.innerHTML = newContent;
})

capsLock.addEventListener("click", function () {
    if (isCaps) {
        capsLock.classList.remove("active");
        for (let key of allKey) {
            if (key.classList.contains("delete") || key.classList.contains("enter") ||
                key.classList.contains("space") || key.classList.contains("capslock")) {
                //nothing
            } else
                key.innerHTML = key.innerHTML.toLowerCase();
        }
    } else {
        capsLock.classList.add("active");
        for (let key of allKey) {
            if (key.classList.contains("delete") || key.classList.contains("enter") ||
                key.classList.contains("space") || key.classList.contains("capslock")) {
                //nothing
            } else
                key.innerHTML = key.innerHTML.toUpperCase();
        }
    }
    isCaps = !isCaps
})

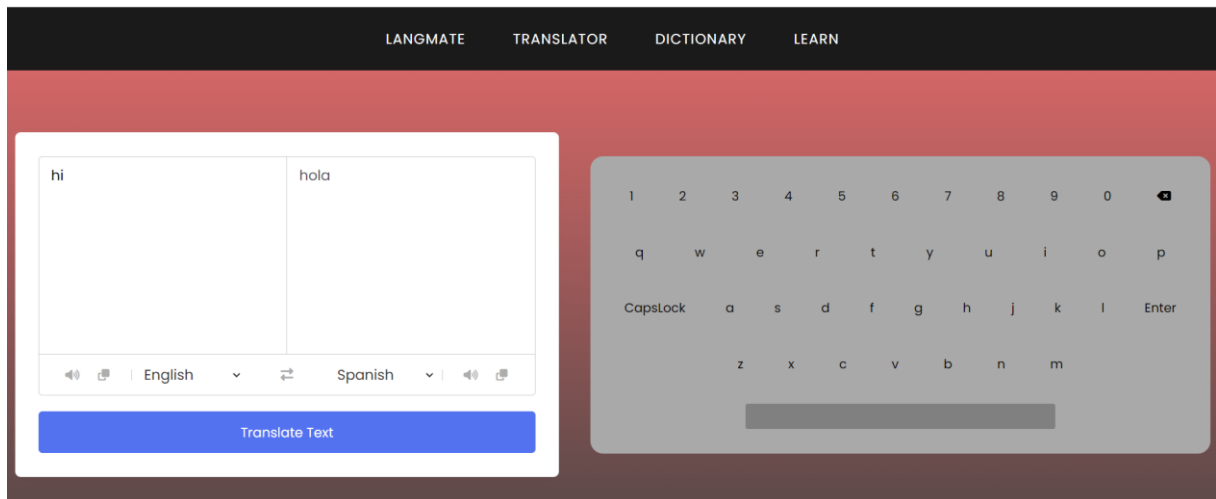
for (let key of allKey) {
    key.addEventListener("click", function () {
        if (key.classList.contains("delete") || key.classList.contains("enter") ||
            key.classList.contains("space") || key.classList.contains("capslock")) {
            return;
        }
    });
}
```



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```
}  
textContainer.innerHTML += key.innerHTML;  
})  
}
```



Dictionary:-

Dictionary.html

```
<!DOCTYPE html>  
<!-- Coding By CodingNepal - youtube.com/codingnepal -->  
<html lang="en" dir="ltr">  
  <head>  
    <meta charset="utf-8">  
    <title>Dictionary</title>  
    <link rel="stylesheet" href="style1.css">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <!-- CDN Link for Icons -->  
    <link rel="stylesheet" href="https://fonts.googleapis.com/icon?family=Material+Icons">  
    <link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-awesome/5.15.3/css/all.min.css"/>  
  </head>  
  <body>  
    <header class="header">  
      <nav class="navbar">  
        <ul>  
          <li><a href="firstpage.css">LangMate</a></li>  
          <li><a href="index.html">Translator</a></li>  
          <li><a href="dictionary.html">Dictionary</a></li>
```



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```
<li><a href="learn.html">Learn</a></li>
</ul>
</nav>
</header>
<div class="wrapper">
  <header>English Dictionary</header>
  <div class="search">
    <input type="text" placeholder="Search a word" required spellcheck="false">
    <i class="fas fa-search"></i>
    <span class="material-icons">close</span>
  </div>
  <p class="info-text">Type any existing word and press enter to get meaning, example,
synonyms, etc.</p>
  <ul>
    <li class="word">
      <div class="details">
        <p>__</p>
        <span>_ _</span>
      </div>
      <i class="fas fa-volume-up"></i>
    </li>
    <div class="content">
      <li class="meaning">
        <div class="details">
          <p>Meaning</p>
          <span>__</span>
        </div>
      </li>
      <li class="example">
        <div class="details">
          <p>Example</p>
          <span>__</span>
        </div>
      </li>
      <li class="synonyms">
        <div class="details">
          <p>Synonyms</p>
          <div class="list"></div>
        </div>
      </li>
    </div>
  </ul>
</div>

<script src="script1.js"></script>
```



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</body>
</html>

Dictionary.js

```
const wrapper = document.querySelector(".wrapper"),
searchInput = wrapper.querySelector("input"),
volume = wrapper.querySelector(".word i"),
infoText = wrapper.querySelector(".info-text"),
synonyms = wrapper.querySelector(".synonyms .list"),
removeIcon = wrapper.querySelector(".search span");
let audio;

function data(result, word){
  if(result.title){
    infoText.innerHTML = `Can't find the meaning of <span>${word}</span>. Please, try
to search for another word.`;
  }else{
    wrapper.classList.add("active");
    let definitions = result[0].meanings[0].definitions[0],
    phontetics = `${result[0].meanings[0].partOfSpeech} /${result[0].phonetics[0].text}/`;
    document.querySelector(".word p").innerText = result[0].word;
    document.querySelector(".word span").innerText = phontetics;
    document.querySelector(".meaning span").innerText = definitions.definition;
    document.querySelector(".example span").innerText = definitions.example;
    audio = new Audio(result[0].phonetics[0].audio);

    if(definitions.synonyms[0] == undefined){
      synonyms.parentElement.style.display = "none";
    }else{
      synonyms.parentElement.style.display = "block";
      synonyms.innerHTML = "";
      for (let i = 0; i < 5; i++) {
        let tag = `<span
onclick="search('${definitions.synonyms[i]}')">${definitions.synonyms[i]}</span>`;
        tag = i == 4 ? tag = `<span
onclick="search('${definitions.synonyms[i]}')">${definitions.synonyms[4]}</span>` : tag;
        synonyms.insertAdjacentHTML("beforeend", tag);
      }
    }
  }
}

function search(word){
  fetchApi(word);
}
```



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```
searchInput.value = word;
}

function fetchApi(word){
  wrapper.classList.remove("active");
  infoText.style.color = "#000";
  infoText.innerHTML = `Searching the meaning of <span>${word}</span>`;
  let url = `https://api.dictionaryapi.dev/api/v2/entries/en/${word}`;
  fetch(url).then(response => response.json()).then(result => data(result, word)).catch(() =>{
    infoText.innerHTML = `Can't find the meaning of <span>${word}</span>. Please, try
to search for another word.`;
  });
}

searchInput.addEventListener("keyup", e =>{
  let word = e.target.value.replace(/\s+/g, '');
  if(e.key == "Enter" && word){
    fetchApi(word);
  }
});

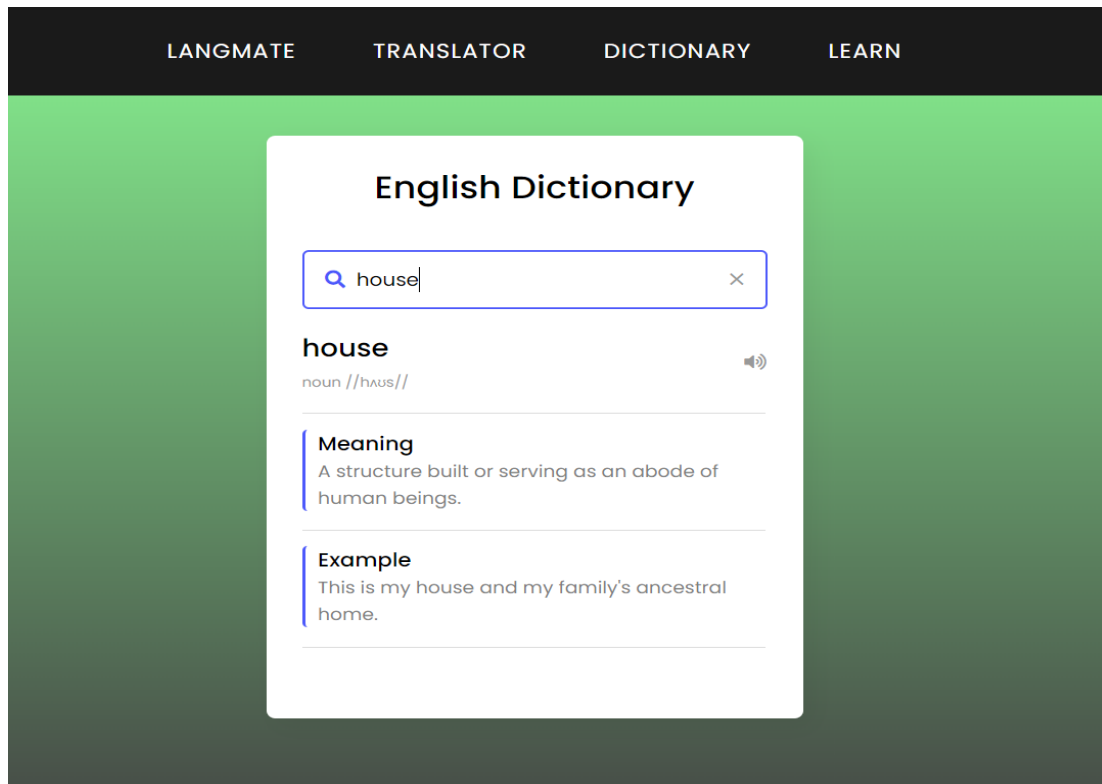
volume.addEventListener("click", ()=>{
  volume.style.color = "#4D59FB";
  audio.play();
  setTimeout(() =>{
    volume.style.color = "#999";
  }, 800);
});

removeIcon.addEventListener("click", ()=>{
  searchInput.value = "";
  searchInput.focus();
  wrapper.classList.remove("active");
  infoText.style.color = "#9A9A9A";
  infoText.innerHTML = "Type any existing word and press enter to get meaning, example,
synonyms, etc.";
});
```



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Learn:-





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MCQ:-

Hindi quiz.html

```
<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="UTF-8">
<meta http-equiv="X-UA-Compatible" content="IE=edge">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Hindi Quiz</title>
<link rel="stylesheet" href="style2.css">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/4.7.0/css/font-awesome.css">
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.0.0-
alpha.6/css/bootstrap.min.css">
</head>
<body>
  <header class="header">
    <nav class="navbar">
      <ul>
        <li><a href="firstpage.html">LangMate</a></li>
        <li><a href="index.html">Translator</a></li>
        <li><a href="dictionary.html">Dictionary</a></li>
        <li><a href="/learn.html">Learn</a></li>
      </ul>
    </nav>
  </header>
  <div class="content">
    <div class="container-fluid">
      <div class="row">
        <div class="col-sm-12">
          <div id="result" class="quiz-body">
            <form name="quizForm" onSubmit="">
              <fieldset class="form-group">
                <h4><span id="qid">1.</span> <span id="question"></span></h4>
                <div class="option-block-container" id="question-options">
                  </div> <!-- End of option block -->
              </fieldset>
              <button name="previous" id="previous" class="btn btn-success">Previous</button>
              &nbsp;
              <button name="next" id="next" class="btn btn-success">Next</button>
            </form>
          </div>
        </div> <!-- End of col-sm-12 -->
      </div> <!-- End of row -->
    </div>
  </div>
```




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```
</div><!-- ENd of container fluid -->
</div><!-- End of content -->
<script src="https://cdnjs.cloudflare.com/ajax/libs/jquery/3.1.1/jquery.min.js"></script>
<script src="https://cdnjs.cloudflare.com/ajax/libs/twitter-bootstrap/4.0.0-
alpha.6/js/bootstrap.min.js"></script>
<script src="Hindi.js"></script>
</body>
</html>
```

Hindi.js

```
var quiz = {
  "JS": [
    {
      "id": 1,
      "question": "What will you call 'Time' in hindi?",
      "options": [
        {
          "a": "समय",
          "b": "वेळ",
          "c": "जानवर",
          "d": "पौधा"
        }
      ],
      "answer": "समय",
      "score": 0,
      "status": ""
    },
    {
      "id": 2,
      "question": "What will you call 'Plant' in hindi?",
      "options": [
        {
          "a": "नकाब",
          "b": "पौधा",
          "c": "पत्थर",
          "d": "घास"
        }
      ],
      "answer": "पौधा",
      "score": 0,
      "status": ""
    },
    {
      "id": 3,
```



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"question": "How will you say 'Hello' in hindi?",

"options": [

{

"a": "नमस्कार",

"b": "अलविदा",

"c": "जीतना",

"d": "नमस्ते"

}

],

"answer": "नमस्ते",

"score": 0,

"status": ""

},

{

"id": 4,

"question": "How will you say 'water' in hindi?",

"options": [

{

"a": "पत्ता",

"b": "पाणी",

"c": "पानी",

"d": "पान",

}

],

"answer": "पानी",

"score": 0,

"status": ""

},

{

"id": 5,

"question": "How will you say 'Morning' in hindi?",

"options": [

{

"a": "सुबह",

"b": "सकाळी",

"c": "शाम",

"d": "रात",

}

],

"answer": "सुबह",

"score": 0,

"status": ""

},

{



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```
"id": 6,  
"question": "How will you say 'Sing' in hindi",  
"options": [  
  {  
    "a": "झोप",  
    "b": "नींद",  
    "c": "गाणे",  
    "d": "गाना"  
  }  
],  
"answer": "गाना",  
"score": 0,  
"status": ""  
},  
{  
  "id": 7,  
  "question": "How will you say 'Run' in hindi?",  
  "options": [  
    {  
      "a": "टहलना",  
      "b": "दौड़ना",  
      "c": "चालणे",  
      "d": "धावणे"  
    }  
  ],  
  "answer": "दौड़ना",  
  "score": 0,  
  "status": ""  
},  
{  
  "id": 8,  
  "question": "what will you call 'Work' in hindi?",  
  "options": [  
    {  
      "a": "काम",  
      "b": "व्यायामशाळा",  
      "c": "जिम",  
      "d": "लोमड़ी",  
    }  
  ],  
  "answer": "काम",  
  "score": 0,  
  "status": ""  
},
```



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```
{  
  "id": 9,  
  "question": "what will you say for 'Salt' in hindi?",  
  "options": [  
    {  
      "a": "नमक",  
      "b": "मीठ",  
      "c": "चावल",  
      "d": "All of the above."  
    }  
  ],  
  "answer": "नमक",  
  "score": 0,  
  "status": ""  
},
```

```
{  
  "id": 10,  
  "question": "How will you say 'Risk' in hindi?",  
  "options": [  
    {  
      "a": "आध्यात्मिक",  
      "b": "धोका",  
      "c": "जोखिम",  
      "d": "ऋण"  
    }  
  ],  
  "answer": "जोखिम",  
  "score": 0,  
  "status": ""  
},  
]  
}
```

```
var quizApp = function () {  
  this.score = 0;  
  this.qno = 1;  
  this.currentque = 0;  
  var totalque = quiz.JS.length;  
  this.displayQuiz = function (cque) {  
    this.currentque = cque;  
    if (this.currentque < totalque) {  
      $("#tque").html(totalque);  
      $("#previous").attr("disabled", false);  
      $("#next").attr("disabled", false);  
      $("#qid").html(quiz.JS[this.currentque].id + '.');
```



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```
$("#question").html(quiz.JS[this.currentque].question);
$("#question-options").html("");
for (var key in quiz.JS[this.currentque].options[0]) {
    if (quiz.JS[this.currentque].options[0].hasOwnProperty(key)) {
        $("#question-options").append(
            "<div class='form-check option-block'>" +
            "<label class='form-check-label'>" +
            "<input type='radio' class='form-check-input' name='option' id='q" + key + "' value='" +
            quiz.JS[this.currentque].options[0][key] + "'><span id='optionval'>" +
            quiz.JS[this.currentque].options[0][key] +
            "</span></label>"
        );
    }
}
if (this.currentque <= 0) {
    $("#previous").attr("disabled", true);
}
if (this.currentque >= totalque) {
    $("#next").attr('disabled', true);
    for (var i = 0; i < totalque; i++) {
        this.score = this.score + quiz.JS[i].score;
    }
    return this.showResult(this.score);
}
this.showResult = function (scr) {
    $("#result").addClass('result');
    $("#result").html("<h1 class='res-header'>Total Score: &nbsp;" + scr + '/' + totalque +
    "</h1>");
    for (var j = 0; j < totalque; j++) {
        var res;
        if (quiz.JS[j].score == 0) {
            res = '<span class="wrong">' + quiz.JS[j].score + '</span><i class="fa fa-remove c-
            wrong"></i>';
        } else {
            res = '<span class="correct">' + quiz.JS[j].score + '</span><i class="fa fa-check c-
            correct"></i>';
        }
        $("#result").append(
            '<div class="result-question"><span>Q ' + quiz.JS[j].id + '</span> &nbsp;' +
            quiz.JS[j].question + '</div>' +
            '<div><b>Correct answer:</b> &nbsp;' + quiz.JS[j].answer + '</div>' +
            '<div class="last-row"><b>Score:</b> &nbsp;' + res +
            '</div>'
        );
    }
};
```



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```
}  
}  
this.checkAnswer = function (option) {  
var answer = quiz.JS[this.currentque].answer;  
if (option == quiz.JS[this.currentque].answer) {  
if (quiz.JS[this.currentque].score == "") {  
quiz.JS[this.currentque].score = 1;  
quiz.JS[this.currentque].status = "correct";  
}  
} else {  
quiz.JS[this.currentque].status = "wrong";  
}  
}  
this.changeQuestion = function (cque) {  
this.currentque = this.currentque + cque;  
this.displayQuiz(this.currentque);  
}  
}  
var jsq = new quizApp();  
var selectedopt;  
$(document).ready(function () {  
jsq.displayQuiz(0);  
$('#question-options').on('change', 'input[type=radio][name=option]', function (e) {  
//var radio = $(this).find('input:radio');  
$(this).prop("checked", true);  
selectedopt = $(this).val();  
});  
});  
$('#next').click(function (e) {  
e.preventDefault();  
if (selectedopt) {  
jsq.checkAnswer(selectedopt);  
}  
jsq.changeQuestion(1);  
});  
$('#previous').click(function (e) {  
e.preventDefault();  
if (selectedopt) {  
jsq.checkAnswer(selectedopt);  
}  
jsq.changeQuestion(-1);  
});  
});
```



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LANGMATE TRANSLATOR DICTIONARY LEARN

1. What will you call 'Time' in hindi?

☒ समय

☐ वेळ

☐ जानवर

☐ पौधा

Previous Next

LANGMATE TRANSLATOR DICTIONARY LEARN

Total Score: 7/10

Q 1 What will you call 'Time' in hindi?
Correct answer: समय
Score: 1 ✓

Q 2 What will you call 'Plant' in hindi?
Correct answer: पौधा
Score: 1 ✓

Q 3 How will you say 'Hello' in hindi?
Correct answer: नमस्ते
Score: 0 ✗

Q 4 How will you say 'water' in hindi?
Correct answer: पानी
Score: 1 ✓

Q 5 How will you say 'Morning' in hindi?
Correct answer: सुबह
Score: 0 ✗

Q 6 How will you say 'Sing' in hindi
Correct answer: गाना
Score: 0 ✗

Q 7 How will you say 'Run' in hindi?
Correct answer: दौड़ना
Score: 1 ✓



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Text:-

GermanSentence.html

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="UTF-8">
  <title>German Sentences</title>
  <link rel="stylesheet" href="German.css">
</head>
<body>
  <header class="header">
    <nav class="navbar">
      <ul>
        <li><a href="firstpage.html">LangMate</a></li>
        <li><a href="index.html">Translator</a></li>
        <li><a href="dictionary.html">Dictionary</a></li>
        <li><a href="/learn.html">Learn</a></li>
      </ul>
    </nav>
  </header>
  <main>
    <h2>Lesson : German to English translation </h2>
    <p id="question">Translate this sentence to English:</p>
    <p id="sentence"></p>
    <form>
      <input type="text" id="translation" placeholder="Enter your translation here">
      <button type="button" id="check-btn">Check</button>
      <button type="button" id="next-btn" style="display:none;">Next</button>
    </form>
    <p id="feedback"></p>
  </main>

  <script src="German.js"></script>
</body>
</html>
```




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German.js

```
const questions = [  
  {  
    question: "Translate 'Was ist dein Lieblingsessen?' to English.",  
    sentence: "Was ist dein Lieblingsessen?",  
    answer: "What is your favourite food?"  
  },  
  {  
    question: "Translate 'Wie alt bist du?' to English.",  
    sentence: "Wie alt bist du?",  
    answer: "How old are you?"  
  },  
  {  
    question: "Translate 'Wo wohnst du?' to English.",  
    sentence: "Wo wohnst du?",  
    answer: "Where do you live?"  
  },  
  {  
    question: "Translate 'Was machst du gerne in deiner Freizeit?' to English.",  
    sentence: "Was machst du gerne in deiner Freizeit?",  
    answer: "What do you like to do in your free time?"  
  },  
  {  
    question: "Translate 'Was war das letzte Buch, das du gelesen hast?' to English.",  
    sentence: "Was war das letzte Buch, das du gelesen hast?",  
    answer: "What was the last book you read?"  
  },  
  {  
    question: "Translate 'Welches Land möchtest du gerne besuchen?' to English.",  
    sentence: "Welches Land möchtest du gerne besuchen?",  
    answer: "Which country would you like to visit?"  
  },  
  {  
    question: "Translate 'Kannst du mir bitte helfen?' to English.",  
    sentence: "Kannst du mir bitte helfen?",  
    answer: "Can you please help me?"  
  },  
  {  
    question: "Translate 'Was ist dein Lieblingsfilm?' to English.",  
    sentence: "Was ist dein Lieblingsfilm?",  
    answer: "What is your favourite movie?"  
  },  
  {  
    question: "Translate 'Was sind deine Hobbys?' to English.",  
    sentence: "Was sind deine Hobbys?",
```



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```
    answer: "What are your hobbies?"
  },
  {
    question: "Translate 'Wie geht es dir heute?' to English.",
    sentence: "Translate 'Wie geht es dir heute?',",
    answer: "How are you feeling today?"
  }
];

const questionEl = document.getElementById("question");
const sentenceEl = document.getElementById("sentence");
const translationEl = document.getElementById("translation");
const checkBtn = document.getElementById("check-btn");
const nextBtn = document.getElementById("next-btn");
const feedbackEl = document.getElementById("feedback");

let currentQuestion = 0;

function displayQuestion() {
  questionEl.innerText = questions[currentQuestion].question;
  sentenceEl.innerText = questions[currentQuestion].sentence;
}

function checkAnswer() {
  const userAnswer = translationEl.value.toLowerCase().trim();
  const correctAnswer = questions[currentQuestion].answer.toLowerCase().trim();

  if (userAnswer === correctAnswer) {
    feedbackEl.innerHTML = "<p id='correct'>Correct!</p>";
  } else {
    feedbackEl.innerHTML = "<p id='incorrect'>Incorrect. The correct answer is: " +
questions[currentQuestion].answer + "</p>";
  }

  translationEl.disabled = true;
  checkBtn.disabled = true;
  nextBtn.style.display = "block";
}

function nextQuestion() {
  currentQuestion++;
  if (currentQuestion < questions.length) {
    displayQuestion();
    translationEl.disabled = false;
  }
}
```



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```
checkBtn.disabled = false;
translationEl.value = "";
feedbackEl.innerHTML = "";
nextBtn.style.display = "none";
} else {
  questionEl.innerText = "Lesson complete!";
  sentenceEl.innerText = "";
  translationEl.style.display = "none";
  checkBtn.style.display = "none";
  nextBtn.style.display = "none";
  feedbackEl.innerHTML = "";
}
}

displayQuestion();

checkBtn.addEventListener("click", checkAnswer);
nextBtn.addEventListener("click", nextQuestion);
```

LANGMATE

TRANSLATOR

DICTIONARY

LEARN

Lesson : German to English translation

Translate 'Was ist dein Lieblingsessen?' to English.

Was ist dein Lieblingsessen?

Check

Next

Incorrect. The correct answer is: What is your favorite food?



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4. Conclusion:

1. **Increased language proficiency:** Our platform would help users improve their language skills and gain fluency in their desired language(s).
2. **Increased accessibility:** Our platform would make language learning more accessible to a wider audience as it is convenient and can be accessed from anywhere.
3. **Increased engagement:** Our platform would provide engaging and interactive learning resources that keep users motivated and interested in learning a new language.

5. References:

<https://blog.duolingo.com/>

<https://www.w3schools.com/html/>

<https://www.w3schools.com/css/default.asp>

<https://www.w3schools.com/js/default.asp>

<https://getbootstrap.com/docs/5.3/getting-started/introduction/>

https://en.wikipedia.org/wiki/Google_Translate