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| Requirements elicitation, analysis and specification reporting |
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# Collect Requirements

Students：

1. Provide more interactivity: Learning platforms can increase learners' participation and interest by introducing thinking games or puzzles, making the learning process more interesting and challenging.
2. Increase video resources: The learning platform can provide more high-quality video resources to present knowledge points in the form of animation and simulation to help learners better understand and memorize. Video resources can provide vivid images and sounds, which help to enhance the learning effect.
3. Provide instant Q&A function: Learning platform can provide instant question and answer function, so that learners can ask questions and get answers at any time. Such timely feedback and interaction can help learners better understand and digest what they have learned and improve their learning efficiency.
4. Intuitive and easy-to-use interface design: Students expect the user interface design of the learning platform to be more intuitive, concise and easy to understand and operate. The platform should focus on user experience and make it easy for students to find the features and resources they need through clear navigation, clear signage and intuitive layout.
5. Provide friendly navigation and search functions: Students expect the learning platform to provide easy navigation and search functions to quickly locate and access the learning materials and tools they need. Good navigation and search system can reduce students' sense of loss and waste of time problems, improve learning efficiency.
6. Provide personalized customization options: Students have certain expectations for personalized customization of the learning platform, and they hope to customize the interface and functions according to their learning needs and preferences. Personalized customization can enhance students' sense of participation and use comfort, improve the learning experience.

Educator：

1 .Provide more interactive tools: The teaching platform can introduce interactive tools such as virtual labs, so students can conduct actual experiments and operations, rather than just passively reading. Interactive tools can increase students' participation and practical ability and improve the teaching effect.

2. Support for personalized curriculum setting: The teaching platform can provide personalized curriculum setting functions, enabling teachers to adjust and customize teaching content according to students' performance and needs. Personalized curriculum can meet students' different learning needs and improve learning effect and interest.

3. Simplify the grading process: The teaching platform can provide the function of grading automation to simplify the grading process of teachers. Automated grading can save teachers' time and energy and enable teachers to focus more on the teaching activities themselves.

4. Improved communication tools: Teaching platforms can provide better communication tools for teachers to communicate and interact effectively with students. This includes functions such as providing feedback to students, answering questions and conducting group discussions to promote communication and collaboration between teachers and students.

Parents of students：

1. Limit screen time: Parents are concerned that their children are spending too much screen time in online learning. Therefore, improved learning platforms should provide a way to help parents monitor and limit their children's screen time to ensure that they have proper rest and a balanced learning environment.
2. Provide security: Parents are concerned that their children face safety issues such as data breaches and online bullying in online learning. Therefore, the improved learning platform should adopt strict security measures to ensure the safety and privacy protection of children when learning online.
3. Progress tracking and detailed feedback: Parents want to be able to keep track of their child's progress and performance in real time and receive detailed feedback. Improved learning platforms should offer progress tracking capabilities that allow parents to see how their children are learning so that they can customize their child's learning plan to their individual strengths and weaknesses.

Edu Tech team：

1. User consent: Online education platforms must obtain explicit consent from users or their guardians (for users under 18) before collecting personal data. Improved platforms should provide clear consent mechanisms to ensure that users fully understand and consent to the way their data will be collected and used.
2. Minimum Necessary Data: The Platform shall collect only such data as is necessary to provide the service. Improved platforms should follow the principle of data minimization, collecting and storing only necessary personal data to reduce the potential risk of data leakage and abuse.
3. Security Measures: The Platform must adopt appropriate security measures to protect user data from unauthorized access, alteration, or disclosure. Improved platforms should implement strong data encryption, authentication, and access control measures to ensure data confidentiality and integrity.
4. Data retention: Personal data should not be retained for longer than necessary. Platforms should clearly define and enforce data retention policies to ensure that personal data is deleted or anonymized in a timely manner when no longer needed to reduce data storage risks and compliance issues.
5. Transparency: Platforms should be transparent about their data handling practices, including clearly informing users about what data is collected, how it is used, and with whom it is shared. Improved platforms should provide user-friendly privacy policies and data usage statements to help users understand where and how their data is used.

# Collect requirements on the Iinternet

**LinkedIn Learning**

Students:

It is important that the platform has a visually appealing interface that allows students to easily navigate and understand their grades, course layouts, and certificate information.

The framework should provide a comprehensive overview of course planning, allowing students to make informed decisions regarding their learning journey.

For offline access, the system should support downloading relevant resources, enabling students to study anytime and anywhere.

It is important for students to be able to monitor their progress and assess their learning through quizzes or similar assessment tools.

Accreditation should be clearly stated and readily available upon completion of a course, providing motivation and recognition to students.

Educators:

It should provide educators with a user-friendly interface for managing and adjusting course content, including updates and modifications as appropriate.

Teachers should have the ability to effectively communicate information about the course, such as sharing announcements and providing students with detailed exam information.

It should support facile interaction between educators and students, allowing timely feedback, response to questions and guidance.

The system would benefit from offering analytics or reporting features that provide insights into student achievement and engagement, helping educators monitor progress and adjust instructional strategies accordingly.

Parents:

It is important that the system provides a visually intuitive and user-friendly interface for parents to access their child's learning information, including grades, examination performance, certificates and lesson planning.

It is important that parents have the ability to easily monitor their child's progress and identify areas in which additional support or intervention may be required.

**Udemy**

**Students:**

It is important that the system provides a user-friendly interface that allows students to easily search for courses and to access comprehensive information about each course, including reviews and ratings from prior learners.

It is important that students have the ability to interact with instructors and ask questions, which promotes a sense of engagement and facilitates a better learning experience.

To cater for different learning preferences, the platform should offer a variety of learning materials such as videos, PDF documents and interactive resources.

In order to monitor their learning achievements, students should be able to monitor their progress within courses, including completion percentages and quiz scores.

It is important that the system provides clear guidelines for course prerequisites, helping students select courses that align with their existing knowledge and skills.

**Instructors:**

It is important that the platform offers tools and resources that facilitate effective communication with students, such as discussion boards, messaging features, and the ability to provide feedback in a timely manner.

Instructors should be given the opportunity to personalize and brand their courses, allowing them to establish a unique identity and enhance their standing as educators.

It should provide analytics and reporting features that offer insights into student engagement, completion rates, and feedback, allowing instructors to improve their courses based on decisions that are driven by the data.

The instructor should have control over pricing and discounts, allowing the instructor to set fair prices for his or her courses and to implement promotional campaigns if desired.

It is important that the system provides support and guidance to instructors in terms of best practices for course creation, instructional design, and marketing strategies.

**Management:**

Such a system should ensure fair competition between course creators, offering equal opportunities for both new and experienced instructors to showcase their courses and to attract students to them.

Platform management should have mechanisms in place to check and maintain the quality of courses, ensuring that students have access to high quality educational content.

It should prioritize the privacy of user data and allow instructors to have ownership and control over their own brand and marketing efforts.

We recommend that the platform use algorithms and recommender systems to promote a diverse range of courses, taking into account factors beyond popularity, such as course quality, relevancy, and learner feedback.

Ongoing updates and enhancements to the platform should be implemented based on user feedback and emerging industry trends to improve the overall user experience.

# Classification Of Requirement

Arrange the requirements in order of their importance based on their impact on the business and the needs of users.

Evaluate the extent to which the requirements align with the overall goals and values of the business. It is essential to give priority to the requirements that can yield quick and significant results. Pay attention to the significance and fulfillment of user requirements. Requirements that have a higher priority should be able to meet the fundamental needs and expectations of users better.

Functional requirement:

Provide more interactivity

Increase video resources

Provide instant Q&A function

Provide more interactive tools

Support for personalized curriculum setting

Simplify the grading process

Improved communication tools

Security Measures

User-friendly interface for course search and access

Interaction capabilities with instructors

Diverse learning materials (videos, PDF documents, etc.)

Progress tracking within courses

Clear guidelines on course prerequisites

Communication tools with students (discussion forums, messaging features)

Customization and branding options for courses

Analytics and reporting features for course improvement

Control over pricing and discounts

Support and guidance for course creation and marketing

Fair competition among course creators

Course quality verification and maintenance

User data privacy and ownership for instructors

Algorithm-based course promotion considering multiple factors

Continuous platform updates based on user feedback and industry trends

Non-functional requirement:

Intuitive and easy-to-use interface design

Provide friendly navigation and search functions

Provide personalized customization options

Limit screen time

Provide security

Progress tracking and detailed feedback

User consent

Minimum Necessary Data

Data retention

Transparency

User-friendly interface design for easy navigation

Responsive and efficient performance across devices

Accessible offline learning capabilities

Secure handling of user data and privacy protection

Seamless and reliable communication features

Robust analytics and reporting capabilities

Flexible pricing and discounting mechanisms

Intuitive course creation and management tools

Scalability to handle a large number of courses and users

Reliable and secure infrastructure for data management

Timely and effective customer support for instructors and students

Agile development approach for continuous improvements

priority ranking:

**high priority:**

Provide more interactivity

Increase video resources

Provide instant Q&A function

Support for personalized curriculum setting

Improved communication tools

User-friendly interface for course search and access

Interaction capabilities with instructors

Diverse learning materials (videos, PDF documents, etc.)

Secure handling of user data and privacy protection

Communication tools with students (discussion forums, messaging features)

Customization and branding options for courses

Analytics and reporting features for course improvement

Flexible pricing and discounting mechanisms

Course quality verification and maintenance

User data privacy and ownership for instructors

Reliable and secure infrastructure for data management

Timely and effective customer support for instructors and students

**medium priority:**

Simplify the grading process

Intuitive and easy-to-use interface design

Provide more interactive tools

Provide friendly navigation and search functions

Progress tracking within courses

Clear guidelines on course prerequisites

Seamless and reliable communication features

Intuitive course creation and management tools

Scalability to handle a large number of courses and users

Agile development approach for continuous improvements

**low priority:**

Provide personalized customization options

Limit screen time

Provide security

Progress tracking and detailed feedback

User consent

Minimum Necessary Data

Data retention

Transparency

Accessible offline learning capabilities

Robust analytics and reporting capabilities

Fair competition among course creators

Algorithm-based course promotion considering multiple factors

# Data on the internet

LinkedIn Learning, formerly known as Lynda.com, is an educational platform that provides professional courses in a variety of areas, including business, digital marketing, web development, design, and many others. It offers video lessons for learners and is mainly a premium service for LinkedIn users. The platform offers over 16, 000 courses in 11 languages and aims to assist individuals in investing in their professional development. The school also collaborates with high-profile companies to provide learners with highly desired professional certificates.

Pros:

* Highly recognised and valued within the inter-firm (B2B) community.
* Provides users with a month-long free trial to explore the platform.
* Provides personalized course recommendations based on individual preferences.
* Grants accreditation on completion of courses.
* Enabling learners to evaluate their progress through quizzes.
* Provides access to offline learning, allowing learning to take place on the go.
* Gives access to other premium features of the career.

Cons:

* the quality of courses offered may be ambiguous, and users may need to conduct research prior to enrolling.
* Joining the platform as an instructor can present challenges.

Target Audience:

Student: LinkedIn Learning is well suited for professionals and companies looking to train their employees.

Instructors: In addition to individual learners, the platform can be used by business teams, universities and government organisations for educational and training purposes.

If you are a course creator, you may also apply to be a LinkedIn Learning instructor.

With respect to the functionality of the system.

It seems to provide clear information about certificates, examinations and course planning.

1. This allows students convenient access to their course information, certificate details and examination information.
2. Students are able to upload information relevant to their study.
3. Teachers can easily communicate course information including adjustments and provide detailed information about the exam.
4. Parents can conveniently verify their child's performance on exams, certificates, and class planning.
5. It is important to note that this information is based on the details provided in your initial statement and may not reflect any recent changes or updates that have been made to the LinkedIn Learning platform.

Udemy is one of the most popular online course markets, offering an extensive selection of more than 213,000 video courses. The platform boasts of a large user base, with over 40 million students and a network of 50, 000 instructors and subject matter experts who create courses on the platform.

Udemy offers individuals the opportunity to learn new skills through the provision of various types of online learning materials, including PDF documents, PowerPoint presentations, textual resources, and video content.

Instructors can join Udemy and start teaching online; however, the platform appropriates a significant portion of the revenue generated from course sales and has control over pricing and rebates.

Pros:

* With no setup costs for instructors, making it available to anyone interested in online instruction.
* Have gravitated towards self-paced learning and video-based courses, which are popular with learners.
* The creation of Udemy courses does not require technical knowledge.
* There is a dedicated Udemy app for both iOS and Android platforms, which improves accessibility.

Cons:

* Limited student-instructor interaction, which can impact the learning experience for both parties.
* Strong competition between course creators, which makes it difficult for instructors to stand out.
* Not an option for personal branding, which limits the ability to establish a separate identity as an instructor.
* With minimal control over course pricing, often resulting in courses selling at substantially low prices.
* Udemy maintains ownership of user data and does not share it with instructors, which limits control over brand and marketing efforts.
* The visibility of a course depends primarily on individual marketing efforts, as the platform tends to promote courses that are already in high demand.

Target Audience:

Pupils: Udemy offers courses in almost all disciplines, but prospective students are advised to read reviews before purchasing, as the quality of the courses can vary.

Instructors: Udemy is appropriate for teachers, educators, instructors and freelancers who are just beginning their careers in the online education industry.

Analysis: Student:

It supports Android devices as well as iOS devices, making it suitable for learners with basic technology knowledge.

Teacher:

Although there is no upfront cost of joining Udemy as an instructor, the benefits of course publication are relatively small.

Course publishers compete with each other, making it difficult for instructors to gain exposure and traction.

It is important to note that the information provided is based on the details in your statement and may not reflect any recent updates or changes that have been made to the Udemy platform.

# Classification Of Data on the Internet

The following requirements can be identified from the analysis of both systems and taking into account the perspectives of students, educators and parents.

For Students:

1. It is a visually appealing website that provides clear information about grades, course layouts and certificates. In this way, students are able to understand their progress, make informed decisions about their learning plans, and remain motivated through the recognition of certificates.
2. Cost-cutting measures such as downloading resources offline and compatibility with various systems to minimize the time and financial burden on students.

For Educators: For Educators:

1. Visual interfaces that allow teachers to easily view student grades and make timely adjustments to the difficulty of the course based on performance.
2. Practical communication tools to facilitate effective interaction with the students and their parents, enabling timely feedback and support to be provided.
3. It is a ranking system that prioritizes teaching quality over popularity, providing experienced teachers and newcomers with equal opportunities to showcase their teaching capabilities, and reducing competition between educators.

Parent:

A visually intuitive system that makes it easy for parents to check on their child's learning progress and keep up to date on their performance.

These requirements highlight the need for user-friendly interfaces, effective communication tools, transparent information display, and support for personalized learning experiences. Taking these aspects into account can contribute to the development of an educational system that is responsive to the needs of students, educators, and parents.

It should rank teachers according to the quality of their teaching, prioritizing experienced teachers over popularity. This approach allows new teachers to showcase their pedagogical skills and reduces competition between teachers. Focusing solely on teaching quality makes it easier for students to access high-quality courses.

Parent:

The system should have a visually appealing interface that allows parents to conveniently monitor their child's progress in learning and to keep up to date with their performance. These visual displays make it easier for parents to effectively track their students' learning situations.

# Analyse

Conclusion:

Having looked at two popular online learning platforms, LinkedIn Learning and Udemy, and analysed their advantages and disadvantages, we can draw some conclusions concerning the perspectives of students, educators, parents and the system itself.

Student Perspective:

1. They need a visually attractive website that provides clear information about their grades, course arrangements and certificates. With this clarity, they are better able to make informed decisions and adjust their learning plans accordingly. Furthermore, receiving certificates may serve as motivation for improved learning outcomes.
2. Reducing costs is crucial to students. This can be done through offline access to learning, allowing them to study at their own convenience without incurring additional costs. In addition, the system should support a variety of operating systems to minimize the financial burden associated with platform switching.

Educator Perspective: Educator Perspective:

1. Teachers also benefit from websites that are visually appealing. Students need intuitive interfaces to observe student grades and adjust the difficulty of the course based on average performance. In addition, clear course arrangements help with effective scheduling based on their schedules.
2. Educators need convenient communication tools for interacting with students and their parents. This allows for timely feedback on students' progress and performance in the classroom. At the same time, students and parents may seek advice and support from teachers when they face challenges.
3. Rather than relying solely on popularity, the system should prioritize the quality of instruction by experienced instructors. It provides opportunities for new teachers to showcase their skills and reduces competition between educators. The emphasis on teaching quality ensures high value courses for learners.

Parent Perspective: Parents also benefit from a system that is visually appealing as it allows them to easily monitor their child's progress in learning. Access to examination results, certificates, and course planning information offers convenience and transparency in monitoring their child's educational pathway.

System Perspective: System Perspective:

1. To improve the user experience for students, educators, and parents, the system should prioritize the visual presentation. Intuitive interfaces and the clear display of information contribute to effective engagement and use.
2. Measures to reduce costs, such as access to offline learning and support for different systems, should be implemented to minimize the financial burden on students.
3. It is essential to have communication tools that facilitate effective interaction among educators, students, and parents. This ensures prompt feedback, support and advice.
4. We conclude that a well-designed e-learning platform should prioritize visual appeal, reduced student costs, convenient communication tools for educators, and transparent access to information for parents. By meeting these requirements, the platform has the potential to enhance the learning experience for all stakeholders and promote effective education and skills development.

Parent: The system should have a visually appealing interface that allows parents to conveniently monitor their child's progress in learning and to keep up to date with their performance. These visual displays make it easier for parents to effectively track their students' learning situations.

# Requirements Report

## Introduction

This requirements report is intended to provide an overview of the key requirements for EduTech's project to integrate virtual reality (VR) technology and to expand their library of content. It is designed to provide immersive learning experiences, especially for complex science concepts and historical events. EduTech also plans to collaborate with educational institutions and independent educators to provide accredited courses. The importance of security, usability and compliance with data protection regulations will also be discussed.

## Virtual Reality (VR) Integration Requirements

VR Content Development: Developing and curating VR content that improves learning experiences for complex science concepts and historical events.

User Interaction: Enable users to interact with VR content through intuitive controls and realistic simulations.

Cross-Platform Compatibility: Ensure compatibility with multiple VR platforms and devices to maximize accessibility for users.

Scalability: Design the VR integration framework in a scalable manner to accommodate future expansion and addition of new content.

Performance Optimization: Optimize VR applications for smooth performance and minimize latency in order to achieve a seamless experience.

## Content Library Expansion Requirements

Collaborations with Educational Institutions: Partnering with educational institutions to source high quality educational content and courses.

Working with Independent Educators: Engaging independent educators to contribute expertise and develop specialised courses.

Course Certification: Implement a certification process for the courses offered on the platform in order to ensure credibility and value to the learners.

Content Curation: Continuously curating and updating the content library to provide relevant and current educational materials.

Diverse Subject Areas: Expand the content library to cover a broad range of topics and disciplines to meet the needs of diverse learners.

## Security and Data Protection Requirements:

User Data Privacy: Implement robust security measures to protect user data and ensure compliance with data protection regulations.

Secure Authentication is the use of secure authentication mechanisms to prevent unauthorised access to user accounts and sensitive information.

Cryptography: Apply strong encryption methods to back up user data during transmission and storage.

Consent and Parental Controls: Implement features for obtaining user consent, particularly for minors, and provide parental controls for the monitoring and management of children's activities.

Regular Security Audits: Perform regular security checks to identify and fix vulnerabilities, ensuring continuous protection of user data.

## **User-Friendly Interface Requirements:**

Intuitive Navigation: Design an intuitive user interface that allows for easy browsing and access to the VR content as well as the expanded content library.

Clear Instructions: Provide clear instructions and guidance for users to interact with VR simulations and to access course materials.

Responsive Design: Ensure the platform is responsive and adaptable to different devices and screen sizes for a seamless user experience.

Personalisation: Incorporate features that allow users to personalise their learning experience, such as bookmarks, progress monitoring and personalised recommendations.

## **Compliance Requirements:**

Data Protection Regulations: Comply with relevant data protection regulations, such as GDPR or COPPA, to protect user privacy and ensure lawful handling of personal information.

Accessibility Standards: Adhering to accessibility standards in order to ensure equal access to the platform for disabled users.

Educational Standards: Aligning with educational standards and guidelines in order to maintain educational quality and credibility in course offerings.

## Interactivity and Engagement Requirements:

Enhanced Interactivity: Incorporating interactive elements such as quizzes, simulations and interactive exercises in order to actively engage learners.

Increased Video Resources: Expand the availability of video-based learning materials in order to deliver dynamic and visually engaging content.

Instant Q&A Function: Implement real-time Q&A functionality to allow learners to ask questions and receive answers in a timely manner from instructors or peers.

More Interactive Tools: Introduce interactive tools, such as virtual whiteboards, collaborative projects, and interactive presentations, with the goal of facilitating active learning and collaboration.

Personalized Curriculum Setting: Provide learners with the opportunity to personalize their curriculum by choosing specific topics, modules, or learning pathways based on their interests and objectives.

## Simplified Grading and Assessment Requirements:

Streamlined Grading Process: Develop a simplified grading system that automates grading tasks and provides clear feedback to learners in a timely manner.

Efficient Assessment Tools: Implement assessment tools such as online quizzes and assignments that facilitate easy submission, grading, and exchange of feedback between instructors and students.

Progress Tracking: Allow learners to monitor their progress within courses, view completed milestones, and access performance analytics in order to effectively monitor their learning journey.

## Communication and Collaboration Requirements:

Improved Communication Tools: Enhance communication channels between instructors and learners, including chat rooms, messaging functions, and virtual office hours, in order to foster effective and timely communication.

Instructor interaction: Provide learners with the opportunity to interact with instructors through virtual meetings, Q&A sessions, and feedback exchanges for personalised guidance and support.

Collaboration Features: Allow learners to collaborate with peers on projects, assignments, and group discussions in order to foster teamwork and the sharing of knowledge.

## Security and Privacy Requirements:

User Data Protection: Implement stringent security measures to ensure the privacy and integrity of user data, in compliance with the relevant data protection regulations.

User Consent: Obtain explicit consent from users for data collection and use, especially for minors, and provide clear information about how their data will be managed.

Minimum Necessary Data: Collect and store only the minimum amount of user data needed for platform functionality, minimizing data curation and promoting privacy.

Transparency and Data Retention: Clearly define data curation policies and inform users about the length of storage and the purposes of their data. Develop transparent practices regarding the handling and sharing of data.

## User-Friendly Interface Requirements:

Intuitive Navigation: Design a user-friendly interface that allows for easy navigation, search of courses, and access to course materials.

Responsive Performance: Ensure the platform delivers responsive and efficient performance across devices, accommodating different screen sizes and connection speeds.

Offline Learning Capabilities: Off-line access to selected learning materials, allowing learners to continue their education even in the absence of an internet connection.

Personalization and Branding: Allow instructors to customize their course pages with branding elements in order to establish their unique identity and enhance the appeal of the course.

## Course Creation and Management Requirements:

Course Creation Support: Provide comprehensive support and guidance for instructors in the creation of courses, including instructional design, content development, and integration of multimedia.

Price control and Discounts Control: Provide instructors with control over course pricing and the ability to offer discounts or promotional offers within set parameters.

Course Quality Verification: Implement a quality assurance process to verify and maintain the quality of courses, ensuring they meet the platform's standards and learner expectations.

User Data Privacy and Ownership: Grant instructors have ownership and control over user data generated as part of their courses while adhering to data privacy regulations.

Fair Competition: Ensure fair competition between course creators by implementing transparent grading mechanisms, avoiding bias, and promoting equality of opportunity for all instructors.

## Analytics and Reporting Requirements:

Learning Analytics: Providing instructors with detailed analytics about learner engagement, progress, and performance to facilitate data-driven pedagogical decisions and course enhancements.

Reporting Features: Enable instructors to generate comprehensive reports on learner achievements, course completion rates, and assessment results for administrative purposes and performance evaluation.

## Continuous Improvement Requirements:

User Feedback Integration: Incorporating user feedback mechanisms such as surveys and ratings to gather valuable insights for platform improvements and to identify areas for improvement.

Industry Trend Monitoring: Stay up-to-date with the latest trends and advances in online learning and continually improve the platform's functionality and features accordingly.

Agile Development Approach: Adopting an agile development methodology for iterating and deploying frequent updates, addressing bugs, adding new functionality, and improving the overall user experience.

## Conclusion

This paper proposes that the improvement of online learning platform should focus on enhancing interaction, expanding video resources, combining with efficient communication tools, providing strong security measures, enhancing usability, enriching learning materials, allowing progress tracking, and promoting efficient course creation and management. In response to these needs, the platform can provide learners and teachers with a more engaging and user learning experience to meet diverse needs.

# requirements specification

collect requirements

Collect requirements on the internet

Classification Of Requirement

Data on the internet

Classification Of Data on the Internet

Site requirements