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<HogwartsHub.com> Project Report: Phase 2

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Comments by Grader:

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1.0 Overview of Project

The HogwartsHub.com project aims to develop an advanced Campus Resource Management System (CRMS) for Hogwarts University to modernise its administrative processes. This system will streamline facility booking, event management, and student and faculty administration by offering real-time visibility, reducing scheduling conflicts, and enhancing communication. Key features include a user-friendly interface, robust security measures, and personalised dashboards for various stakeholders. By centralising data and processes, HogwartsHub.com aims to improve efficiency, data accuracy, and decision-making, ultimately enhancing the overall student experience and ensuring the university's operational excellence. This system will promptly help transition Hogwarts University into a more modern and efficient institution.

2.0 Problem Statement

1. Inefficient manual booking processes

At Hogwarts University, booking campus facilities is a cumbersome process. Staff members must manually update Excel spreadsheets to request and confirm bookings for classrooms, auditoriums, labs and athletic fields. A centralised system for facility management at Hogwarts University needs real-time visibility into resource availability and usage. Staff members struggle to access up-to-date information on room availability, ongoing bookings and upcoming events. Students, faculty and event organisers always need to waste valuable time waiting for confirmation of their request to use the campus resources. Therefore, the booking process lacks efficiency, resulting in delays and potential scheduling conflicts.

2. Scheduling conflicts and disruptions

Due to the manual and decentralised nature of current resource management at Hogwarts University, there is a possibility that some staff members may exhibit carelessness in handling numerous bookings and communication. This manual approach is prone to errors and delays as it is hard for staff members to cross-reference availability and coordinate with other departments to confirm the reservation. It is because there is a risk that staff members may overlook the important details, fail to update the information promptly or have ineffective communications. As a result, scheduling conflicts, double bookings and last-minute changes frequently occur, causing frustration and inconvenience for students, faculty and event organisers. These conflicts can cause events to be postponed, relocated or even cancelled.

3. Ineffective Event Management System

The current event management system at Hogwarts University is inefficient and cumbersome. Event organisers encounter significant difficulties in managing registrations, coordinating attendees, and effectively promoting their events. The system lacks user-friendly interfaces and automated processes cause event organisers to manage information manually which is prone to errors. Organisers struggle to track attendance and manage capacity limits and feedback. Organisers need to wait for participants to complete the feedback and then manually compile the responses to analyse the data needed. Without an efficient system to deal with the myriad of data, organisers may overlook crucial feedback, leading to missed opportunities for further improvement.

4. Outdated Student and Faculty Management System

Hogwarts University's reliance on outdated student and faculty management methods, characterised by manual and decentralised systems, leads to communication breakdowns. Faculty members encounter challenges in accessing vital information such as recruitment, teaching schedules, student records and grading systems. Faculty members are unable to plan and deliver courses effectively and communicate with students promptly. Students may experience delays or errors in accessing important information or receiving feedback from faculty members, leading to frustration and dissatisfaction.

3.0 Proposed Solutions

HogwartsHub.com is a new system solution developed to address Hogwarts University's resource management challenges. This innovative Campus Resource Management System (CRMS) is presented to stakeholders, including administrators, faculty and students, to enhance operational efficiency and overall academic experience. HogwartsHub.com will improve administrative processes by centralising data and providing user-friendly interfaces, allowing all stakeholders to easily access and manage campus resources.

One of the key features of HogwartsHub.com is the Facility Booking and Management Module. This module allows users to explore, check availability, and reserve campus facilities such as classrooms, auditoriums, labs and sports fields. Administrators can define booking policies, manage reservations, and track resource utilisation in real-time, significantly reducing the likelihood of scheduling conflicts and ensuring smooth operations across campus. For example, faculty members can quickly reserve classrooms for their lectures while students can book study spaces without delays or double bookings.

In addition, HogwartsHub.com includes an Event Management Module designed to simplify the organisation and promotion of campus events. Event organisers can manage registrations, coordinate attendees, and collect feedback through an intuitive interface. This module also supports event promotion, ensuring that workshops, seminars and extracurricular activities reach their intended audience effectively. The streamlined process allows organisers to focus on delivering high-quality events without the hassle of manual data management and inefficient communication.

The Student Management Module within HogwartsHub.com offers comprehensive functionalities for managing student affairs, including enrollment, course registration, and academic records. Students can access their profiles, register for courses and view their schedules through a personalised dashboard. This module ensures that students have all the information they need at their fingertips, reducing administrative bottlenecks and enhancing the overall academic experience.

For faculty and staff, HogwartsHub.com features a Faculty and Staff Management Module. This module facilitates the management of recruitment, scheduling, performance evaluation, and leave management. Faculty members can access their teaching schedules, submit grades, and communicate with students efficiently. The system's centralised data approach reduces errors and delays, promoting a more organised and productive academic environment.

Moreover, HogwartsHub.com offers robust technical capabilities to ensure reliability and security. The system is accessible via smartphones, tablets, and computers, making it convenient for all users. A secure server infrastructure and a comprehensive database system protect sensitive data and support seamless data exchange. Encryption, access controls, and secure authentication mechanisms are implemented to safeguard user information, ensuring privacy and compliance with data protection regulations.

Operationally, the centralisation and automation provided by HogwartsHub.com significantly reduce the time and effort required for managing campus resources. Real-time visibility into resource availability and usage helps administrators make informed decisions, while automated processes eliminate the risk of manual errors. This efficiency not only improves day-to-day operations but also enhances the overall satisfaction of students, faculty, and staff.

From an economic perspective, the implementation of HogwartsHub.com is a sound investment. Initial costs cover the development of the system, including the creation of a user-friendly website and the integration of automatic data logging functionalities. The system's ability to improve resource utilisation and reduce administrative overheads translates into long-term cost savings. Additionally, ongoing maintenance and updates ensure that the system remains reliable and effective.

In summary, HogwartsHub.com presents a comprehensive solution to the resource management challenges at Hogwarts University. By centralising and streamlining various administrative processes, this CRMS enhances communication, improves accessibility, and promotes efficient coordination among all stakeholders. The user-centric design of HogwartsHub.com ensures a seamless experience, enabling students, faculty, and staff to navigate the system effortlessly and focus on their core academic activities. Implementing HogwartsHub.com is crucial for achieving operational excellence and fostering a thriving academic environment at Hogwarts University.

4.0 Information Gathering Process

Collecting data and gathering information is pertinent to learning about the AS-IS system. The data and information presented have been acquired from Miss Minerva, a shareholder in our project based on the AS-IS system, and 100 users who used HogwartsHub.com.

4.1 Methods Used

To get information on the current systems (AS-IS), we have conducted interactive and unobtrusive methods to collect data from the relevant stakeholders.

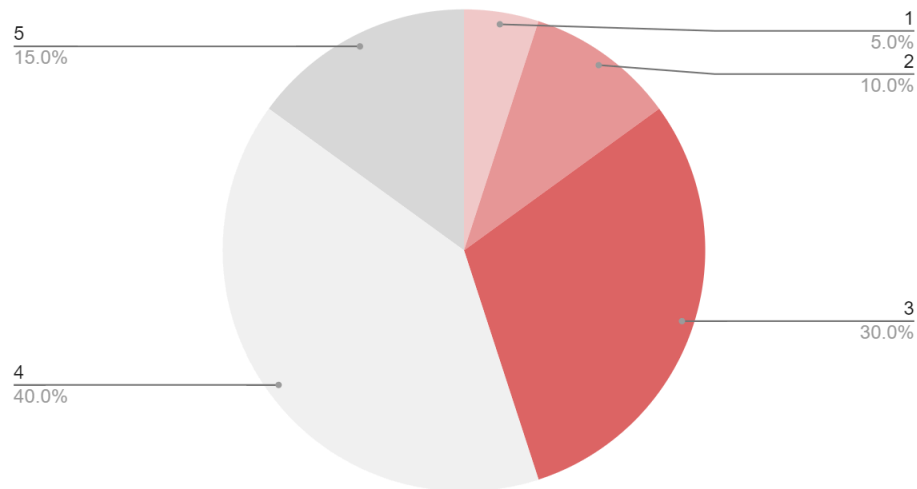
We have conducted surveys and distributed questionnaires containing closed questions. Also, we have conducted interviews with the users, asking various open-ended questions. Finally, we have conducted observations using the STROBE method.

The questions, 100 users' responses, and Miss Minerva's comments are all presented below.

4.1.1 Questionnaires

1. How often do you experience scheduling conflicts when booking campus facilities (e.g., classrooms, labs, sports fields)?

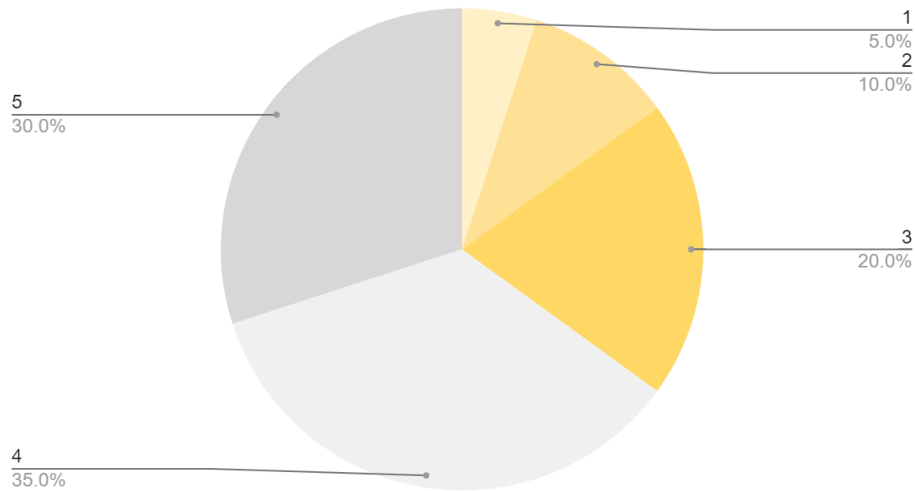
Pie Chart of Scheduling Conflicts Experienced



Based on the question regarding scheduling conflicts, respondents were given a scale of 1 to 5, with 1 indicating no need for improvement and 5 indicating that improvements are very needed. The majority of users rated this question a 4, indicating that it is very needed to have an improved facility booking system. This is because the current system frequently leads to scheduling conflicts and delays, demonstrating a significant gap in efficiency.

2. How satisfied are you with the current process for organising and promoting campus events?

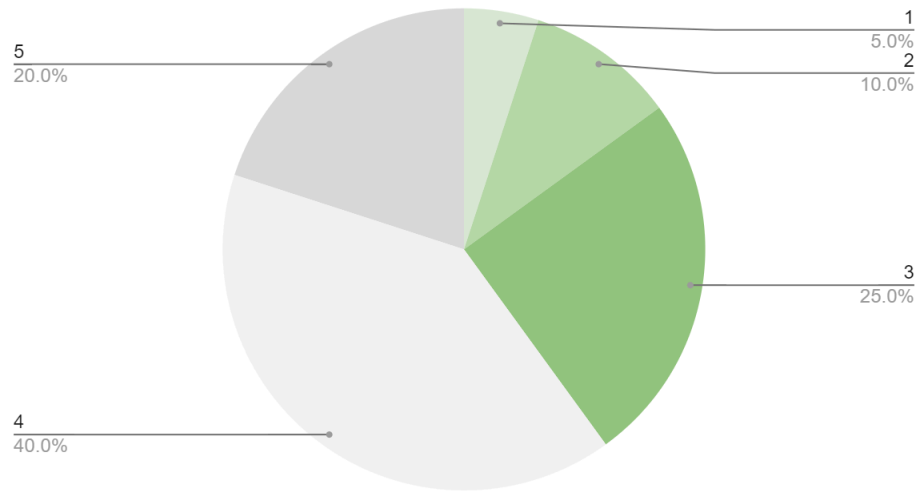
Pie Chart of Event Organization Satisfaction



Respondents were asked to rate their satisfaction with the current event organisation process on a scale of 1 to 5, where 1 is very satisfied and 5 is very dissatisfied. Most users rated this aspect a 4, showing a high level of dissatisfaction. This indicates that a streamlined event management module is very needed, as the current process is time-consuming and ineffective in reaching the intended audience.

3. How efficient is the current system in managing student enrollment and course registration?

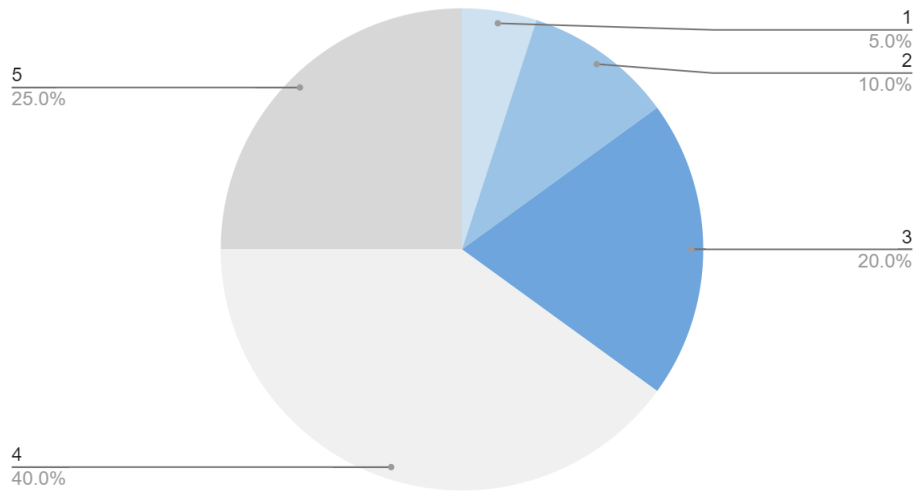
Pie Chart of Efficiency in Managing Enrollment



The efficiency of the current student enrollment and course registration system was rated on a scale from 1 (very efficient) to 5 (very inefficient). The majority of respondents rated this a 4, highlighting significant inefficiencies in the current system. This feedback shows that a more reliable and user-friendly student management module is very needed to address these issues.

4. How easy is it for faculty and staff to access and manage their schedules, submit grades, and communicate with students using the current system?

Pie Chart of Ease of Access for Faculty and Staff



Faculty and staff were asked to rate the ease of accessing and managing their schedules on a scale of 1 to 5, with 1 being very easy and 5 being very difficult. Most respondents rated this aspect a 4, indicating considerable difficulties. This demonstrates that an integrated and easy-to-use faculty and staff management module is very needed to improve productivity and communication.

4.1.2 Interviews

1. **Can you describe a recent experience where you faced difficulties in booking a campus facility?**

Last week, I tried to book a classroom for an extra lecture, but all rooms were either booked or double-booked. It took hours to find an available space.

The interview with Miss Minerva revealed that she frequently faced issues when trying to book campus facilities. For instance, she often encounters double bookings and limited availability, which disrupts her class scheduling. This means that Miss Minerva cannot efficiently secure classroom space for her lectures, indicating a critical need for an improved facility booking and management module to streamline and resolve these conflicts.

2. **How do you currently manage event registrations and promotions, and what challenges do you face?**

We use email lists and physical sign-up sheets. It's time-consuming and often, students miss out on events because they don't get the information in time.

Miss Minerva expressed that managing event registrations and promotions is cumbersome due to the reliance on email lists and physical sign-up sheets. This means that she spends a significant amount of time on administrative tasks, reducing her ability to focus on the content and quality of the events. This feedback highlights the necessity for a streamlined event management module that can automate registrations and enhance communication.

3. What are the main challenges you encounter with the current student enrollment and course registration system?

The system often crashes during peak registration times, and it's difficult to track who has successfully enrolled in courses.

During the interview, Miss Minerva mentioned that the current system for student enrollment and course registration frequently crashes, particularly during peak times. This means that users experience significant delays and frustration, complicating the registration process. Her experience points to a pressing need for a more reliable and user-friendly student management module to facilitate smoother enrollment operations.

4. How do faculty members currently access their teaching schedules and communicate with students?

We use a mix of spreadsheets and email. It's cumbersome, and sometimes schedules get lost or aren't updated properly, leading to confusion.

Miss Minerva indicated that accessing her teaching schedule and communicating with students is challenging because the current system relies heavily on outdated tools like spreadsheets and email. This means that she often encounters discrepancies and inefficiencies in her scheduling and student interactions. Her feedback suggests a strong need for a centralised system that integrates these functions, making it easier for faculty members to manage their responsibilities.

4.1.3 Observations

Observations of administrators managing campus facilities revealed cluttered desks with paper schedules and sign-up sheets strewn about. Administrators appeared overwhelmed by the manual processes involved in managing facility reservations. This highlights the urgent need for a digital system that streamlines the process, allowing administrators to define booking policies, manage reservations, and track resource utilisation efficiently. Additionally, users were observed struggling to explore and view the availability of diverse campus facilities such as classrooms, auditoriums, labs, and sports fields, indicating a pressing need for a centralised booking system to improve accessibility and efficiency.

Next, during observations of event organisers, it was evident that managing campus events, including workshops, seminars, and extracurricular activities, involved a significant amount of paperwork and manual coordination. Event organisers were seen managing attendee lists and registrations through cumbersome methods such as email lists and physical sign-up sheets. This underscores the necessity for a system that includes features such as event registration, promotion, attendee management, and feedback collection to streamline event organisation and improve efficiency.

Then, observations of administrators handling student affairs revealed desks cluttered with piles of forms and printouts related to enrollment, course registration, and academic records. Administrators appeared overwhelmed by the volume of paperwork, leading to inefficiencies and a high potential for errors. This emphasises the critical need for streamlined functionalities within a digital system to manage student affairs effectively, ensuring accuracy and efficiency in processes such as enrollment and record-keeping.

Finally, observations of faculty and staff management processes revealed a reliance on outdated tools such as spreadsheets and email for recruitment, scheduling, performance evaluation, and leave management. Faculty members were observed struggling to access teaching schedules, submit grades, and communicate with students due to the limitations of the current system. This highlights the necessity for a comprehensive digital system that integrates these functionalities, providing faculty and staff with a more efficient and user-friendly platform for managing their affairs.

4.2 Summary of the Method Used

Through a comprehensive analysis of feedback gathered from students, faculty members and administrators, we gained valuable insights into the current functioning of Hogwarts University's resource management system. This feedback has guided us in designing a more efficient and effective solution for HogwartsHub.com.

The questionnaires, interviews and observations highlighted several critical areas in need of improvement, enabling us to prioritise components of the new system that will most significantly enhance user experience. Our focus will be on developing a system that addresses the key issues identified, ensuring that HogwartsHub.com can efficiently process school information and meet the needs of its users. Areas of focus include facility booking and management, event management, student enrollment and course registration, and faculty and staff management.

By prioritising these areas, HogwartsHub.com will not only meet but exceed the expectations of its users, delivering a seamless and secure experience for all stakeholders involved.

5.0 Requirement Analysis

5.1 Current Business Process

Here are the scenarios and workflow of the current business process for students :

1. Log in to the system.
2. Customising according to preference.
 - Students adjust settings for a personalised interface, including notifications and display preferences.
3. Various options are displayed on the main menu.
4. Facility Booking and Management
 - 4.1. Facility Booking
 - 4.1.1. Search for available facilities.
 - 4.1.2. View availability of desired facilities such as classrooms, labs and sports fields.
 - 4.1.3. Select the facility and book the desired time slot.
 - 4.1.4. Receive booking confirmation.
5. Event Management
 - 5.1. Register for an event.
 - 5.1.1. View upcoming campus events, workshops and seminars.
 - 5.1.2. Select an event to view detailed information.
 - 5.1.3. Register for the event.
 - 5.1.4. Receive event registration confirmation and updates.
 - 5.2. Provide feedback.
 - 5.2.1. Access event feedback forms post-event.
 - 5.2.2. Submit feedback and rate the event.
6. Student Management
 - 6.1. Academic Profile
 - 6.1.1. Manage academic profile.
 - 6.1.2. View personal academic profile including enrolled courses and academic progress.

- 6.1.3. Register for new courses.
- 6.1.4. Track grades and academic milestones.
- 6.1.5. Register for extracurricular activities

Here are the scenarios and workflow of the current business process for faculty members :

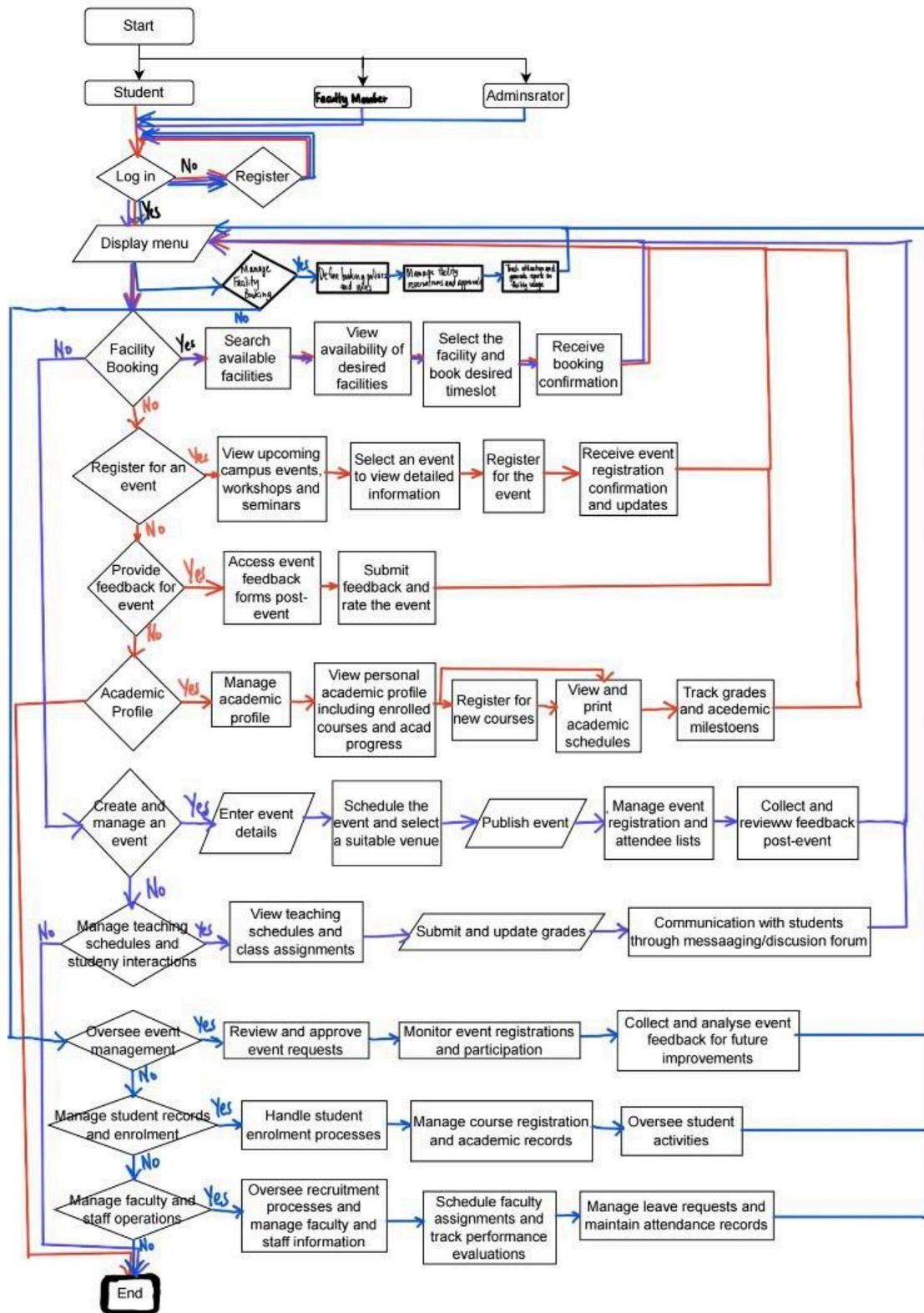
1. Log in to the system.
2. Various options are displayed on the main menu.
3. Facility Booking and Management
 - 3.1. Facility Booking
 - 3.1.1. Search for available facilities.
 - 3.1.2. View availability of desired facilities such as classrooms, labs and sports fields.
 - 3.1.3. Select the facility and book the desired time slot.
 - 3.1.4. Receive booking confirmation.
4. Event Management
 - 4.1. Option to create and manage an event.
 - 4.1.1. Enter event details including title, description, date and time.
 - 4.1.2. Schedule the event and select a suitable venue.
 - 4.1.3. Publish the event for campus-wide visibility.
 - 4.1.4. Manage event registration and attendee lists.
 - 4.1.5. Collect and review feedback post-event.
5. Faculty and Staff Management
 - 5.1. Option to manage teaching schedules and student interactions.
 - 5.1.1. View teaching schedules and class assignments.
 - 5.1.2. Submit and update grades.
 - 5.1.3. Communicate with students through messaging or discussion forums.

Here are the scenarios and workflow of the current business process for administrators :

1. Log in to the system.
2. Various options are displayed on the main menu.
3. Facility Booking and Management
 - 3.1. Option to manage facility bookings.
 - 3.1.1. Define booking policies and rules.
 - 3.1.2. Manage facility reservations and approvals.
 - 3.1.3. Track utilisation and generate reports on facility usage.
4. Event Management
 - 4.1. Option to oversee event management.
 - 4.1.1. Review and approve event requests.
 - 4.1.2. Monitor event registrations and participation.
 - 4.1.3. Collect and analyse event feedback for future improvements.
5. Student Management
 - 5.1. Option to manage student records and enrolment.
 - 5.1.1. Handle student enrolment processes.
 - 5.1.2. Manage course registration and academic records.
 - 5.1.3. Oversee student activities and ensure compliance with institutional policies.
6. Faculty and Staff Management
 - 6.1. Option to manage faculty and staff operations.
 - 6.1.1. Oversee recruitment processes and manage faculty and staff information.
 - 6.1.2. Schedule faculty assignments and track performance evaluations.
 - 6.1.3. Manage leave requests and maintain attendance records.

This structured and detailed approach ensures that all critical steps and functionalities are fully covered, giving students, faculty and administrators at HogwartsHub.com a clear understanding of the current business processes.

AS-IS System Workflow



5.2 Functional Requirements

5.2.1 Context Diagram

PROCESS	INPUT	OUTPUT
HogwartsHub.com	<ul style="list-style-type: none">- Needed Facilities Information- Facilities Booking Data- Event Data- Student Data- Faculty and Staff Data	<ul style="list-style-type: none">- Facilities Availability Data- Booking Approval Info- Event Approval Info- Event Status Data- Organised Students Data- Organised Faculty and Staff Data

5.2.2 Level 0 Diagram

PROCESS	INPUT	OUTPUT
Establish Guidelines	<ul style="list-style-type: none">- Information about Guidelines	<ul style="list-style-type: none">- Information about Guidelines
View Facilities Data	<ul style="list-style-type: none">- Needed Facilities Information- Facilities Availability Data	<ul style="list-style-type: none">- Needed Facilities Information- Facilities Availability Data
Book Facilities	<ul style="list-style-type: none">- Facilities Booking Data- Booking Approval Info	<ul style="list-style-type: none">- Booking Facilities Data
Monitor Utilisation	<ul style="list-style-type: none">- Facilities Utilisation Data	<ul style="list-style-type: none">- Facilities Utilisation Data
Register for Events	<ul style="list-style-type: none">- Event Data	<ul style="list-style-type: none">- Event Approval Info- Event Data
Manage Events	<ul style="list-style-type: none">- Event Data- Event Status	<ul style="list-style-type: none">- Event Data- Event Status Data
Report Event Status	<ul style="list-style-type: none">- Event Status Data	<ul style="list-style-type: none">- Event Status Data
Update Student Profile	<ul style="list-style-type: none">- Students Data	<ul style="list-style-type: none">- Students Data
Manage Students Data	<ul style="list-style-type: none">- Students Data- Organised Students Data	<ul style="list-style-type: none">- Students Data- Organised Students Data
Display Students Data	<ul style="list-style-type: none">- Organised Students Data	<ul style="list-style-type: none">- Organised Students Data
Update Faculty and Staff Data	<ul style="list-style-type: none">- Faculty and Staff Data	<ul style="list-style-type: none">- Faculty and Staff Data
Manage Faculty and Staff Data	<ul style="list-style-type: none">- Faculty and Staff Data	<ul style="list-style-type: none">- Organised Faculty and Staff Data
Display Faculty and Staff Data	<ul style="list-style-type: none">- Organised Faculty and Staff Data	<ul style="list-style-type: none">- Organised Faculty and Staff Data

3.2.3 Level 1 Diagram

3.2.3.1 Process 1: Book Facilities

PROCESS	INPUT	OUTPUT
Verify Facilities Data	<ul style="list-style-type: none">- Facilities Booking Data- Booking Approval Info	<ul style="list-style-type: none">- Facility Data
Verify Booking Approval	<ul style="list-style-type: none">- Facility Data	<ul style="list-style-type: none">- Booking Approval
Book Facility	<ul style="list-style-type: none">- Booking Approval	<ul style="list-style-type: none">- Booking Information- Booking Facility Data
Send Booking Confirmation	<ul style="list-style-type: none">- Booking Information	<ul style="list-style-type: none">- Booking Confirmation
Manage Booking Information	<ul style="list-style-type: none">- Booking Confirmation- Facility Utilisation Data	<ul style="list-style-type: none">- Facility Utilisation Data

3.2.3.2 Process 2: Manage Events

PROCESS	INPUT	OUTPUT
View Event Data	- Event Data	- Details
Arrange Venue And Time	- Details	- Arrangement Details - Arrangement Data
Manage Session	- Arrangement Data	- Attendance Data - Attendance List
Collect Real-Time Feedback	- Attendance Data	- Performance Data - Feedback Data
Analyse Feedback	- Feedback Data	- Feedback Result
Update Status	- Feedback Result	- Status
Update Event Data	- Arrangement Details - Attendance List - Performance Data - Status	- Event Status Data

3.2.3.3 Process 3: Manage Students Data

PROCESS	INPUT	OUTPUT
View Students Data	- Students Data	- Enrollment Request - Academic Records - Extracurricular Activity Registration Request
Verify Course Selection	- Enrollment Request	- Student Academic History
Verify Prerequisites	- Student Academic History	- Enrollment Information
Manage Enrollment Information	- Enrollment Information	- Enrollment Data
Manage Academic Records	- Academic Records	- Academic Data
Verify Activity Selection	- Extracurricular Activity Registration Request	- Student Details
Register for Selected Activity	- Student Details	- Student Information
Verify Student Attendance	- Student Information	- Extracurricular Information
Manage Extracurricular Information	- Extracurricular Information	- Extracurricular Data
Manage Student Data	- Enrollment Data - Academic Data - Extracurricular Data	- Student Data
Organise Student Data	- Student Data	- Organised Student Data

3.2.3.4 Process 4: Manage Faculty and Staff Data

PROCESS	INPUT	OUTPUT
View Faculty and Staff Data	- Faculty and Staff Data	- Faculty and Staff Data
Manage recruitment data	- Faculty and Staff Data	- Recruitment Data - Staff Data
Manage personal data	- Staff Data	- Staff Personal Data - Faculty and Staff Data
Arrange teaching schedule	- Faculty and Staff Data	- Teaching Schedule - Staff Performance Data
Analyst performance evaluation	- Staff Performance Data	- Performance Evaluation Data - Staff Data
Request Leave	- Staff Data	- Leave Data
Update Leave Status	- Leave Data	- Leave Status Data
Update organised Faculty and Staff Data	- Recruitment Data - Staff Personal Data - Teaching Schedule - Performance Evaluation Data - Leave Status Data	- Organized Faculty and Staff Data

5.3 Non-functional Requirement

<https://hogwartshub.wixsite.com/hogwartshub>

The screenshot shows the 'Faculty Consultation' booking interface on the HogwartsHub website. At the top, there's a navigation bar with 'HogwartsHub' and links for 'Sign In', 'Home', 'Features', and 'Book Online'. Below the navigation bar is a '< Back' link. The main heading is 'Faculty Consultation' with a subtext: 'Check out our availability and book the date and time that works for you'. The booking section is titled 'Select a Date and Time' and shows a calendar for May 2024. The date 'Saturday, 25 May' is selected, and the time slots '10:00 pm' and '10:30 pm' are available. To the right, the 'Service Details' section shows 'Faculty Consultation' on '25 May 2024 at 10:00 pm' at 'Jalan Pocut Baren' by 'Staff Member #1' for '1 hr'. A 'Next' button is at the bottom right.

Password for students : students

Password for faculty members : faculty members

Password for administrator : administrator

5.3.1 Performance

Speed

Mobile	Desktop
<ol style="list-style-type: none">1. First Contentful Paint (The time it takes for the first image or block of text to appear) of HogwarsHub.com is 2.6s.2. Speed index (The time it takes for the site to become visible) of Hogwars.com is 3.9s.	<ol style="list-style-type: none">1. First Contentful Paint (The time it takes for the first image or block of text to appear) of HogwarsHub.com is 0.7s.2. Speed index (The time it takes for the site to become visible) of Hogwars.com is 1.0s.

<p>3. Largest Contentful Paint (The time it takes for the largest image or block of text to appear) of HogwarsHub.com is 3.7s.</p> <p>4. Total Blocking Time (The total amount of time that a page is blocked from responding to user input) of HogwarsHub.com is 167ms.</p>	<p>3. Largest Contentful Paint (The time it takes for the largest image or block of text to appear) of HogwarsHub.com is 0.8s.</p> <p>4. Total Blocking Time (The total amount of time that a page is blocked from responding to user input) of HogwarsHub.com is 78ms.</p> <p>5. When using a traffic load simulator, the expected performance of our website under high traffic load can reach 1.51 seconds</p>
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Page Size

1. The width of HogwartsHub.com is 980 pixels.
2. The page size of HogwartsHub.com is 1.7MB.

5.3.2 Security

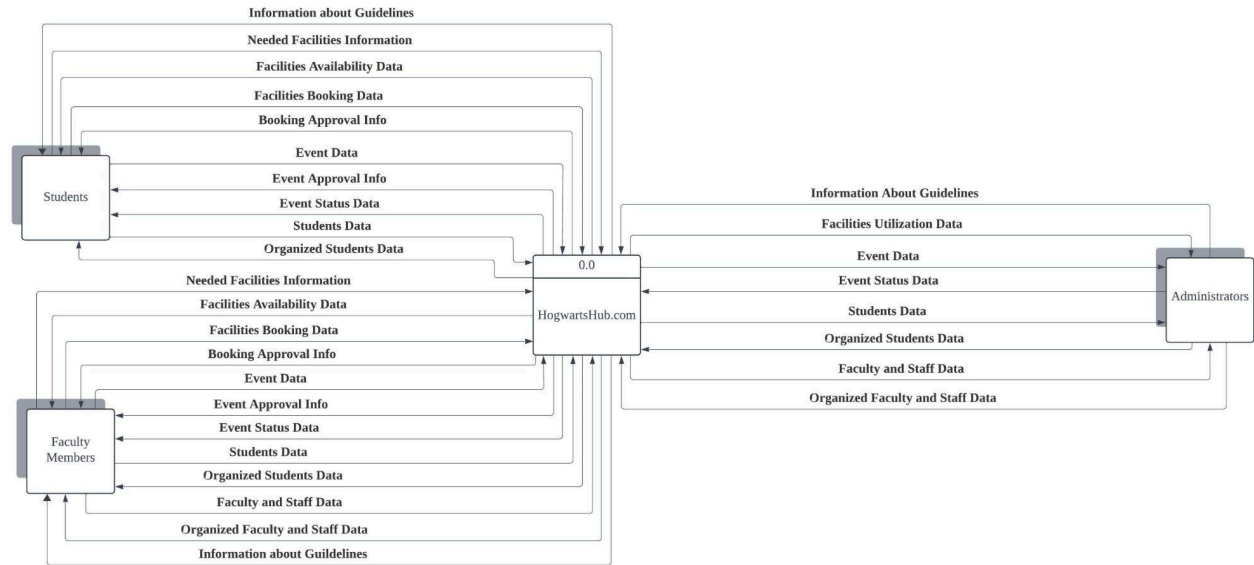
1. Site is protected by built-in security measures.
2. The website comes with an SSL certificate. This assures visitors that our website is trustworthy.
3. AS-IS management system also comes with DDos Protection to keep our website accessible at all times.
4. AS-IS management system uses TLS 1.3 Encryption to protect visitors' information from being intercepted.

5.3.3 Compatibility

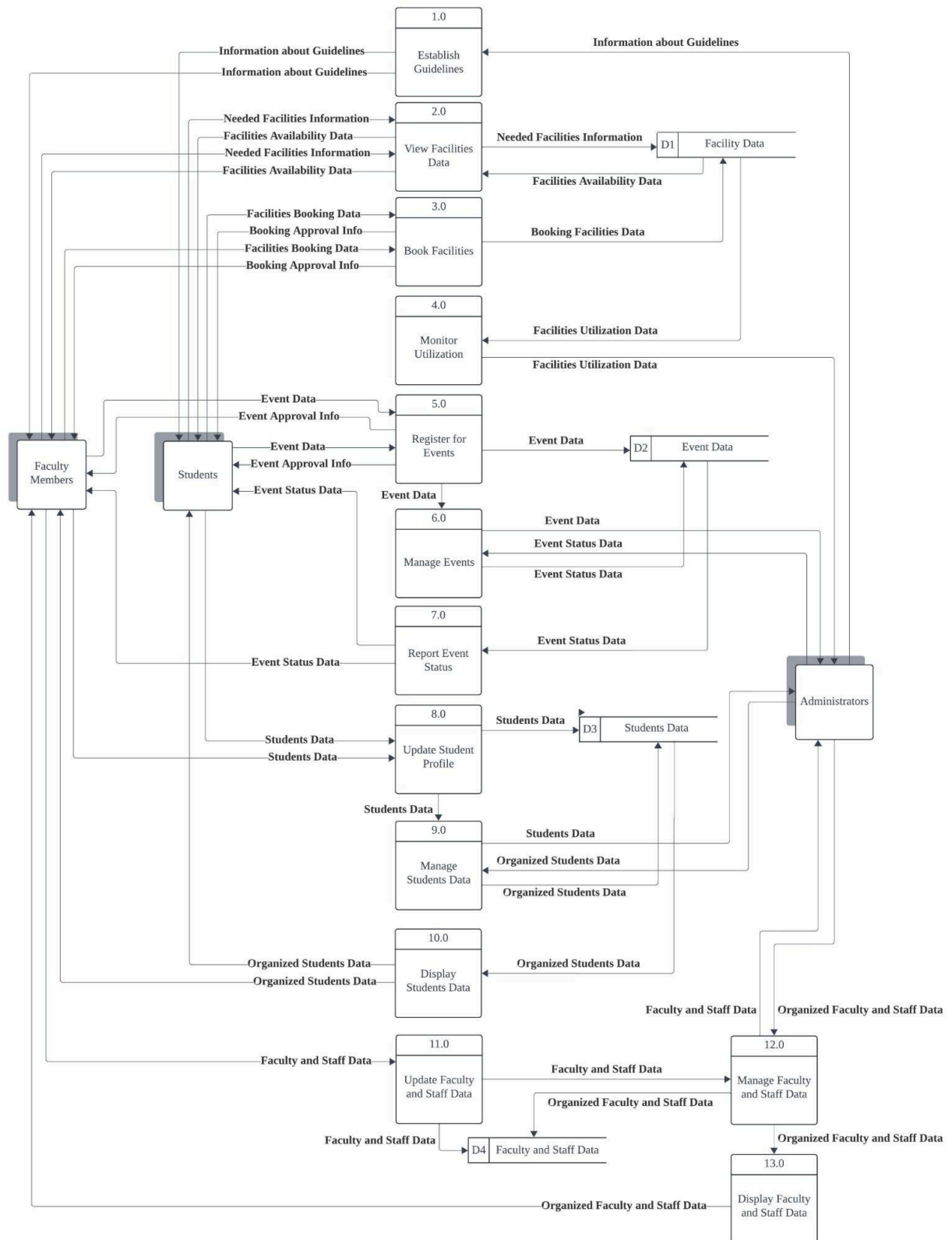
1. For mobile devices, HogwartsHub.com is currently supported by iPhone iOS 14 and above and Android 9.0 and above.
2. An Internet connection is necessary.

5.4 Logical DFD AS-IS system (Context Diagram, Diagram 0, Child)

5.4.1 Context Diagram

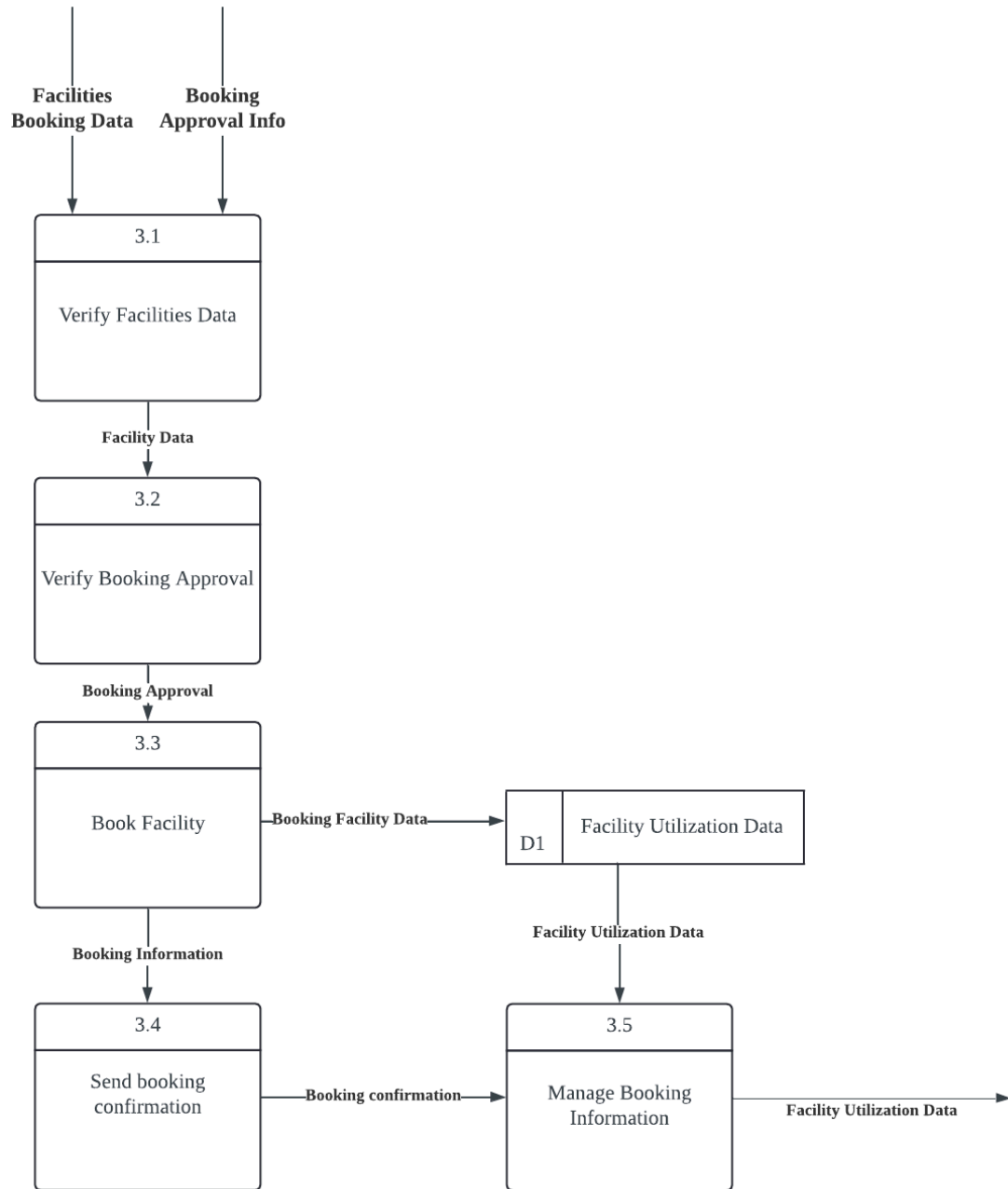


5.4.2 Diagram 0

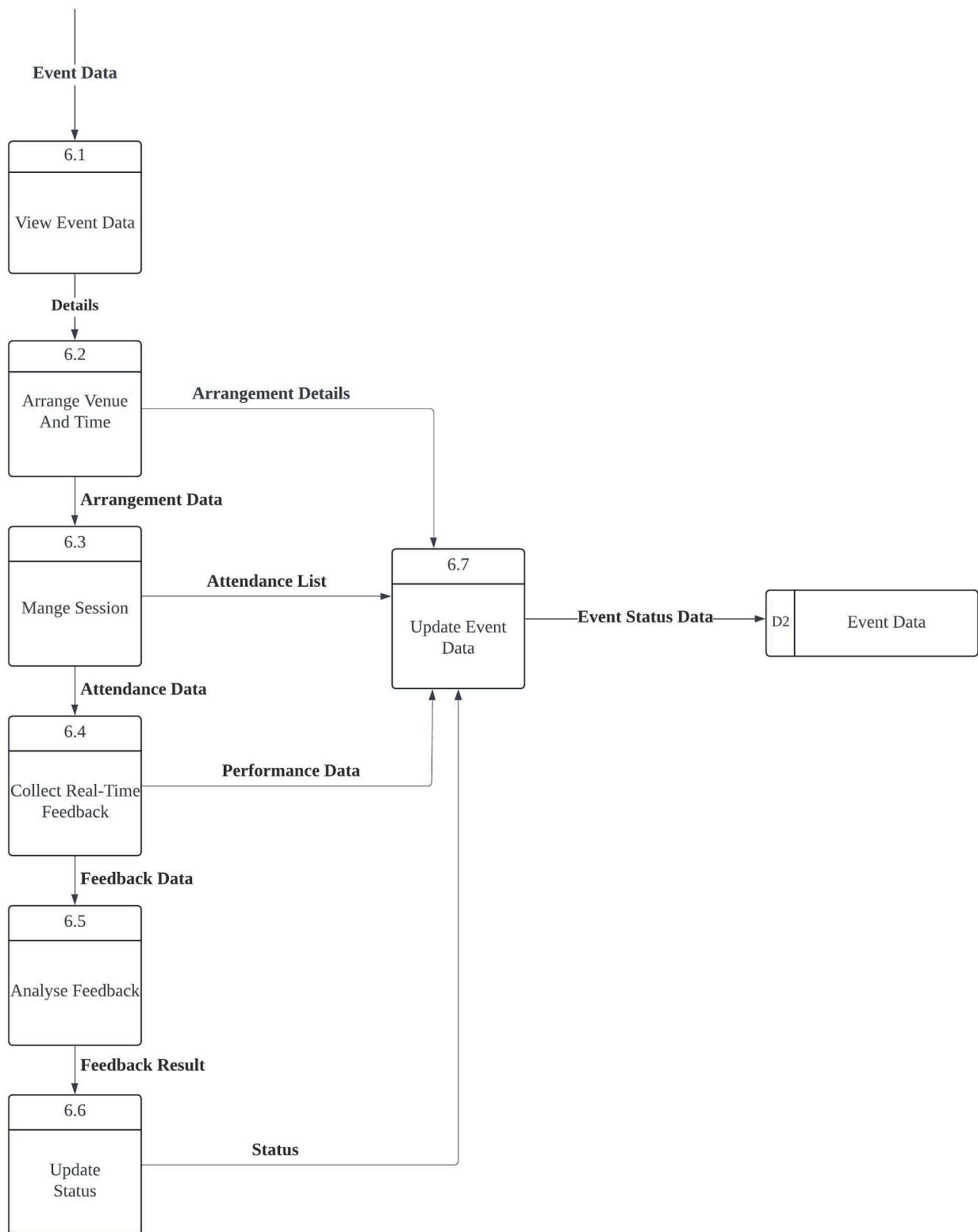


5.4.3 Child Diagram

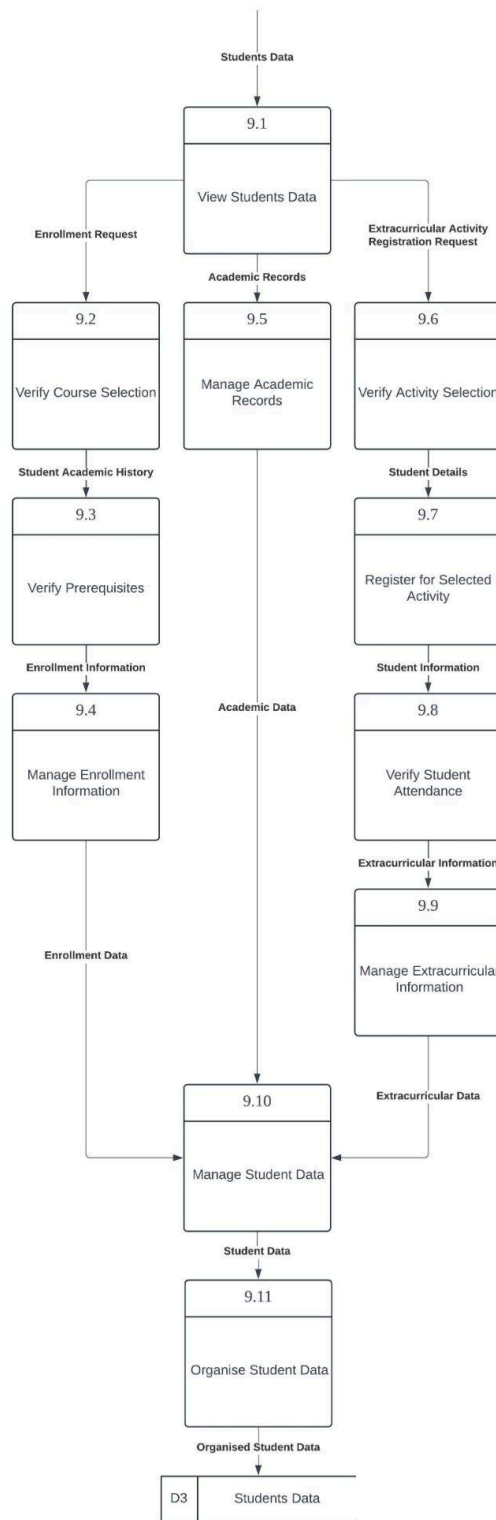
Module 1



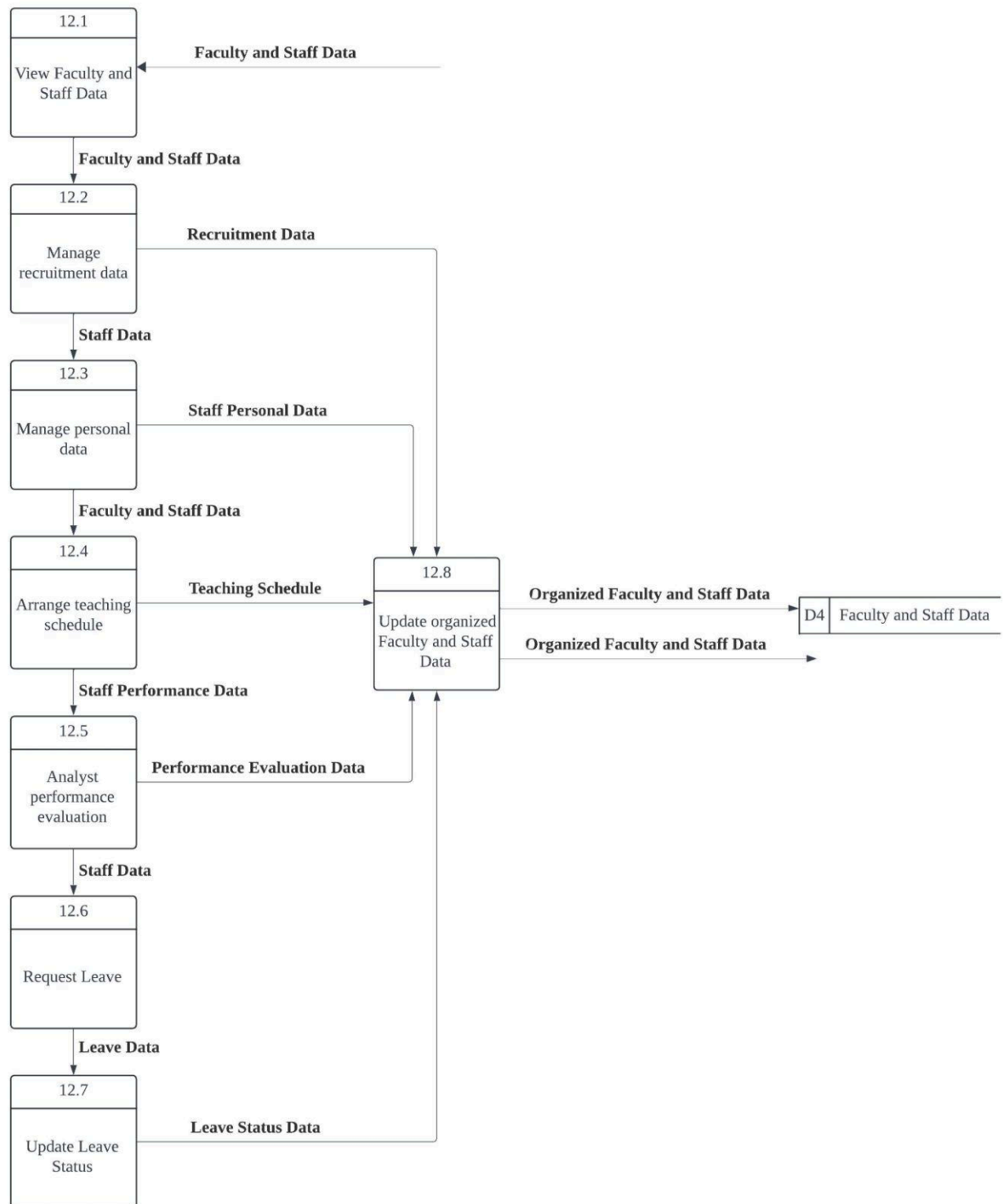
Module 2



Module 3



Module 4



6.0 Summary of Requirement Analysis Process

As seen from the above information, most of Hogwarts University's AS-IS management system is done manually. This can lead to a lot of mistakes happening due to staff input errors and a lot of work. Therefore, we can automate and centralise many processes in order to get the job done with maximum efficiency and perfection. Here we can make some suggestions for the system. Thus, the functions of the To-Be system are as follows:

1. Facility Booking and Management

- Automated Scheduling Calendar
- Automated Facility Portal

2. Enhanced Event Management

- Integrated Calendar
- Automated Feedback Collection
- Communication tools for students and administration

3. Integrated Communication Tools

- Platform For Interaction (Video conferencing)

4. Student and Faculty Management

- Automated Processes Information Students and Staff
- Automated Scheduling
- Grading and Feedback Systems

5. Conflict Scheduling Optimization

- Automated Conflict Detection

6. Reporting and Analytics

- Automated Producing Reports
- Automated Analysis Result