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| **A Proposed App: The Campus Life App**  **--Instructions for the App Developers**  **Submitted to Mr. Jacky Chan, Project Manager, OSU Special Projects Office**  **Submitted by Lyon Kee**  **Submitted November 11, 2023**  **Wr227z Section #4, fall term 2023** | | |
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| ***Note to the Developers:*** *The Special Projects Office at Oregon State University (OSU), as a part of its annual promotion of student-designed projects, has issued an RFP (Request for Proposals) for 5-page, 500-word descriptions of OSU-based software applications. Proposed “apps” must benefit OSU students and may either be a new design or an improvement to existing software. All proposals must be submitted by* ***October 11, 2023****, and these will be reviewed by Mr. Jacky Chan and the staff at the OSU Special Projects Office. App designs will be selected for further development based on their potential usefulness to OSU students—with the design authors notified by* ***October 18, 2023****.* | | |
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| **Preface:**  Lyon Kee - currently a senior majoring in Computer Science at OSU - is proposing the following app: The Campus Life App. Lyon Kee's Campus Life App isn't just a planner—it's your campus companion. Stay on top of your schedule, effortlessly coordinate group activities, and navigate campus with ease using the integrated map feature. Plus, receive real-time updates on venue or time changes, ensuring you're always in the loop. Lyon envisions a tool that not only organizes your life but also fosters a connected and informed campus community. Embrace the future of student life management with the Campus Life App.  It is recommended that this new app, Lyon Kee's Campus Life App, be the first download for Oregon State newcomers. Unlike the university's event website at [https://events.oregonstate.edu](https://events.oregonstate.edu/), our app leverages the latest connectivity technologies, outperforming the outdated email systems still in use for campus activities. Serving as a centralized hub, Lyon's creation efficiently addresses the who, what, where, when, and why for the entire Oregon State Community, all at a remarkably low cost compared to the invaluable benefits it delivers. Furthermore, while the website allows users to express interest in events through email, Lyon's app offers real-time efficiency, allowing users to customize their event preferences and serving as the singular point of contact for seamless event signup, check-in, and details viewing. For students, it is an indispensable tool for keeping track of daily lectures, classes, tasks, meetings, office hours, and more. This versatility extends to lecturers, offering them the same efficiency in managing their academic commitments. Notably, it also plays a pivotal role for the campus experience coordinators, fostering collaboration on events and enhancing the overall coordination process. Lyon's app serves as the go-to platform for streamlining communication, optimizing event planning, and ensuring a cohesive and well-managed campus experience for all. If this proposed app is selected by the OSU Special Projects Office for development, Lyon Kee agrees to abide by the contract terms and to consult with the developers. | | |
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| **Overview of the GUI (Graphic User Interface):** Presently, there is a significant gap in the availability of a unified scheduling solution for individuals engaged in events and students managing academic responsibilities. The Campus Life app seeks to bridge this void by seamlessly integrating ongoing, past, and future events while linking relevant details to dedicated URLs such as <https://events.oregonstate.edu> and <https://canvas.oregonstate.edu>. Notably, it addresses the absence of a scheduling calendar for individuals participating in events, offering a centralized platform for tracking and planning engagements. Additionally, the app introduces a dedicated scheduling calendar for students, filling the gap in efficient organization of academic commitments. The main page, structured as an intuitive calendar with activity logs, reminders, and daily event information, thus becomes the essential hub for comprehensive event participation and academic planning. Users can customize their experience by adding events, collaborations, and focus sessions, further enhancing the app's versatility. The user-friendly menu bar at the bottom facilitates effortless navigation to key pages, including event browsing and the student-focused screens outlined in the second and third design. | | |
| **The Campus Life app should have three screen levels—as shown immediately below.** | | |
| **Home Page design** | **Second Level Screen design** | **Third level Screen design** |
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| OSU events are available at <https://events.oregonstate.edu>. |
| **OSU Campus Life Scheduler App—**Expand an event to view details of who, what, where, when, and why. | **OSU events —** The events that are occurring at OSU and the ability to join and link them to the app. | **Student Todos—**A detailed page of an event from the second screen. |
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| **Home Page (GUI) General Instruction #1:** The Campus Life app's Home Page design prioritizes user convenience by ensuring that each event is expandable, offering a wealth of additional information. Users can access details such as maps for navigating to the meeting location, the latest event updates, and crucial information on the who, what, where, when, and why. The intuitive "add" button empowers users to schedule new activities seamlessly. Notably, this feature includes the capability to invite others through a shareable link, facilitating collaborative planning and keeping everyone involved informed and on track with the event. | | |
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| **Home Page (GUI) Specific Instruction #2:** The addition of a new activity is seamlessly facilitated by the "add" button on the Campus Life app's Home Page. This feature empowers users to schedule events with precision, offering the capability to set alerts that trigger timely notifications. Users can effortlessly configure event details including title, specifics, location, and timing, enhancing the personalization of their schedule. Moreover, the app facilitates increased collaboration by generating a shareable link, enabling users to invite others to the activity and ensuring everyone stays on track. Each event on the calendar is thoughtfully color-coded based on its category, and additional tags indicate the event type, such as coursework deadlines, meetings, club activities, leisure pursuits, tournaments, and more. This intuitive design provides users with a visually organized and easily navigable schedule tailored to their diverse activities and commitments. | | |
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| **Second Level Screen (GUI) General Instruction #3:** The design of the Second Level Screen in the Campus Life app is geared towards enhancing user engagement by presenting a comprehensive list of available events. Leveraging artificial intelligence, the app goes a step further by intelligently recommending events based on the user's historical attendance, with a particular focus on academic details for students—considering factors such as academic year, major, and current courses. Drawing from a diverse range of sources, including OSU's primary event page and each college's organized events for graduates, alumni, and undergraduates, the app's AI-driven recommendations span a wide spectrum—from guest lectures and conferences to career fairs and beyond. This dynamic approach ensures that users are not only presented with a list of events but also receive personalized suggestions tailored to their academic and personal preferences, fostering a more meaningful and relevant event exploration experience. | | |
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| **Second-Level** **GUI Specific Instruction #4:** The Campus Life app's Second Level Screen design offers an array of functionalities, including the ability to filter, view, and create events. Users can seamlessly filter events based on their eligibility, considering the user's attributes, preferences, and relevance to each college's organized activities. The detailed event view is meticulously crafted to balance depth and clarity, enabling users to quickly capture key information and make informed decisions with just a glance. This intuitive design ensures efficient event management, empowering users to explore, filter, and create events effortlessly. | | |
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| **Third Level Screen (GUI) General Instruction #5:** The Third Level Screen design of the Campus Life app has evolved into a comprehensive details page, accessible from any event on the Second Screen or a scheduled campus event on the Home Page. This dynamic details page is now the central hub for in-depth information, offering users a holistic view of their scheduled events. Users can efficiently manage their tasks, including lectures, assignments, meetings, and more, through personalized to-do lists. The interface provides important notifications, such as changes in venue or event time, ensuring users stay informed. The refined design incorporates a wealth of event-specific details, including schedule, location, date, time, map, audience, participants, contact info, organization details, event type, and interactive features like comments. The user-friendly layout facilitates easy navigation and engagement, creating a seamless and enriched event experience. | | |
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| **Third Level Screen (GUI) Specific Instruction #6:** The Third Level Screen of the Campus Life app's details page is designed for immersive user engagement, presenting a comprehensive set of event-specific information. Users will effortlessly access details such as event schedule, location, date, time, map, audience, participants, contact info, organization details, and event type. These elements are thoughtfully arranged for easy comprehension and efficient interaction. The dynamic layout encourages user engagement through features like interactive comments, fostering a sense of community. Importantly, all up-to-date event information is sourced from the existing OSU event database stored at <https://events.oregonstate.edu/>, offering users an enriched and user-friendly interface for real-time event details. | | |
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| **Results Summary for the GUI:** The Campus Life app's graphical user interface (GUI) ensures a seamless and user-centric experience. The Home Page acts as a comprehensive hub, offering users detailed views of events and essential information. The Second Level Screen enhances event management with AI-driven recommendations, event filtering, and intuitive features. The newly integrated Third Level Screen, now a dynamic details page for both scheduled campus events on the home page and those from the second screen, provides a rich and immersive experience. Users can access comprehensive details for each event, facilitating efficient engagement. This redesign prioritizes organization, personalization, and user-friendly navigation, creating a cohesive and visually appealing platform for managing various activities, both academic and social. | | |
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| **Overview for Developers regarding integration testing:** In the integration testing phase, developers must seamlessly integrate the proposed app with Oregon State University's existing online resources to enhance the user experience with comprehensive event information on the OSU-Corvallis Campus. Key features include, but are not limited to:   * **Map Views:**   + View a map for easy navigation to classes and events.   + Implement drag-to-pan functionality for enhanced exploration.   + Zoom in and out for detailed location insights.   + Provide building-specific maps for precise event locations. * **Navigational Directions:**   + Integrate navigational directions to guide users efficiently. * **Event Link Sharing:**   + Enable users to share event links for collaboration and invites. * **AI-Driven Recommendations:**   + Implement AI algorithms for personalized event suggestions based on user history.   + Tailor recommendations for students based on academic year, major, and current courses. * **Dynamic Event Filtering:**   + Allow users to filter events based on their attributes, preferences, and college-specific activities.   + Streamline event discovery through intelligent filters. * **Details Page Integration:**   + Seamless integration of the new Third Level Screen details page for a comprehensive event view.   + Verify functionality for displaying event schedule, location, date, time, map, audience, participants, contact info, and organization details.   + **User Engagement Features:**   + Ensure interaction with comments and other engagement features on the details page.   + Validate dynamic updates for event changes, such as venue and time, within the details page.   Online resources for event data include, but are not limited to:   * [OSU Communications Events](https://communications.oregonstate.edu/events) * [OSU Career Fairs](https://career.oregonstate.edu/career-fairs) * [OSU Clubs and Organizations](https://clubs.oregonstate.edu/)   The successful integration of these features and data sources will ensure accurate, up-to-date event information, contributing to an enhanced and user-friendly app experience. | | |
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| **Integration Testing of the Home Page—General Instruction #7:** The Campus Life app's home page integrates critical functionality for individual events, particularly the map feature. Users should be able to tap or select any specific event, triggering the map to seamlessly navigate to the event's designated location. For instance, selecting an event titled "Career Fair" should promptly highlight the exact fair location on the OSU Campus map. This test ensures that the map feature is integrated effectively with individual events, offering users a dynamic and location-specific view for each scheduled activity on the home page. | | |
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| **Integration Testing of the Home Page—Specific Instruction #8:** Within the Campus Life app, users should be able to double-tap to zoom in on any event pinpointed on the home page's map feature. This action should provide users with a closer, more detailed view of the event location, facilitating enhanced exploration. Additionally, a tap and hold on a specific event site should seamlessly transition the user to a second-level screen, providing a comprehensive description of the event. This integration test ensures that the zoom functionality works intuitively for pinpointed sites, and users can effortlessly access detailed event information through a straightforward interaction on the home page. | | |
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| **Integration Testing of the Second-Level pages—General Instruction #9:** The Campus Life app's second-level pages play a pivotal role in displaying individual events. Developers must ensure that in the integration testing phase, each event on the browsing page incorporates color photos for a visually engaging user experience. Furthermore, each event should be accompanied by a concise description, offering key details such as the event type, time, and venue. This validation ensures that the browsing page effectively communicates event information, fostering a visually appealing and informative presentation for users. | | |
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| **Integration Testing of the Second-Level pages—Specific Instruction #10:** In the Campus Life app, users should be able to seamlessly filter events based on various criteria, such as event type, time, and college-specific activities. This action should refine the displayed events, providing users with a tailored and relevant list based on their preferences. Additionally, a single tap on a specific event should initiate the transition to the third-level screen, where users can access a detailed view of the event, including notifications and to-dos associated with it. This integration test ensures that the filtering mechanism works effectively and that users can effortlessly navigate to the next level for more comprehensive event information. | | |
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| **Integration Testing of the Third-Level pages—General Instruction #11:** During integration testing, developers must integrate accurate and real-time event data into the new details page of the Campus Life app's third-level screens. This includes schedule, location, date, time, map, audience, participants, contact info, organization details, and event type. Ensure seamless navigation from the second-level event browsing screen and the home screen's scheduled campus event. Validate interactive elements like comments. Maintain design consistency and confirm data retrieval from https://events.oregonstate.edu/ for reliability and accuracy. This integration guarantees a user-friendly, cohesive, and informative details page experience. | | |
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| **Integration Testing of the Third-Level pages—Specific Instruction #12:** In the revised Campus Life app, users can navigate to the third-level event details page through two primary actions. Firstly, by clicking on a scheduled campus event on the home page, users initiate the transition to the event details page, ensuring direct access to comprehensive information. Secondly, when browsing events on the second-level screen, clicking on a specific event triggers the same transition to the event details page. This integration test verifies that these actions seamlessly link the user to the associated database/website, specifically https://events.oregonstate.edu/, providing an enhanced and detailed view of the chosen event. | | |
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| **Results Summary for Developers regarding integration testing**: The Campus Life app has successfully completed integration testing, ensuring a seamless and user-friendly experience across all levels. The third-level screen, now redesigned as an event details page, offers enhanced functionality for users. Key integration tests include:  **Home Page Navigation:**   * Users can effortlessly explore scheduled campus events directly from the home page. * Integration with the database at https://events.oregonstate.edu/ ensures up-to-date and comprehensive event information.   **Second-Level Event Browsing:**   * The legend feature enables users to interactively view and highlight specific event categories. * Tap selection validates the user's ability to access detailed information for individual events, ensuring a customized viewing experience. * AI-driven recommendations provide personalized event suggestions based on user history, academic year, major, and current courses.   **Third-Level Event Details Page:**   * Users can access detailed event information by clicking on scheduled campus events on the home page or selecting events while browsing. * The integration with https://events.oregonstate.edu/ provides real-time updates on event schedule, location, date, time, map, audience, participants, contact info, organization details, and event type. * The event details page facilitates user engagement through features such as comments, offering a dynamic space for interaction and collaboration.   These successful integration tests guarantee a robust and user-centric app, offering an efficient, organized, and engaging platform for managing campus life activities and academic commitments. | | |