



Experiment No. 7

Title: Design Dashboard



Batch: B-2**Roll No.: 16010422234****Experiment No.: 7**

Aim: To create wireframe for Web UI – Dashboard

Resources needed: Wireframing tool

Theory:

Dashboard is a familiar and recognizable page style. Dashboards have a long history, both online and in the physical world, and people have well-established expectations about how they work: they show useful information, they update themselves, they usually use graphics to display data, and so on. A dashboard is also a guild of interlocking patterns and components.

Dashboard arranges data displays into a single information-dense page, updated regularly. It shows users relevant, actionable information, and lets them customize the display as necessary.

A site or application deals with an incoming flow of information from something— web server data, social chatter, news, airline flights, business intelligence information, or financials, for example. Users would benefit from continuous monitoring of that information.

Dashboard determines what information users need or want to see. This isn't as simple as it sounds, because one needs an editorial eye — one can't just splatter the screen with confusing or unimportant data, or people won't be able to pick out the parts that matter. Remove, or at least deemphasize, information that doesn't help the user. Use a good visual hierarchy to arrange lists, tables, and information graphics on the page. Try to keep the main information on one page, with little or no scrolling, so people can keep the window on-screen and see everything at a glance. Group related data into Titled Sections, and use tabs only when confident that users won't need to see the tab contents side by side. Use One-Window Drilldown to let users see additional details about the data—they should be able to click on links or graphics to find out more.

Choose appropriate and well-designed information graphics for the data one needs to show. Gauges, dials, pie charts, and 3D bar charts look nice, but they are rarely the best way to show comparative information at a glance—simple line and bar charts express data better, especially time-based data. When numbers and text are more relevant than graphics, use lists and tables. Row Striping is a common pattern for multicolumn data tables. People will try to get actionable information from the dashboard at a glance, without looking hard at every element on the page. So, when showing a text, consider highlighting keywords and numbers so that they stand out from surrounding text.

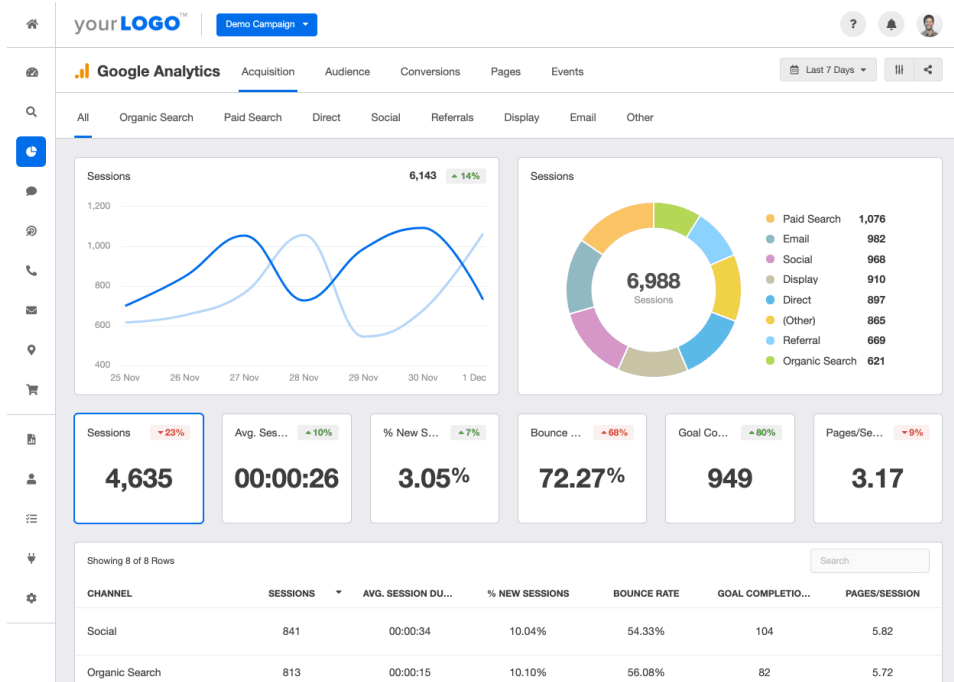
Should users be able to customize their dashboard displays? Many dashboards do offer customization, and users may expect it. One way to customize a dashboard page is to rearrange the sections—Google and My Yahoo! both offer Movable Panels to users, in addition to choosing which gadgets get shown.

Following are some examples:

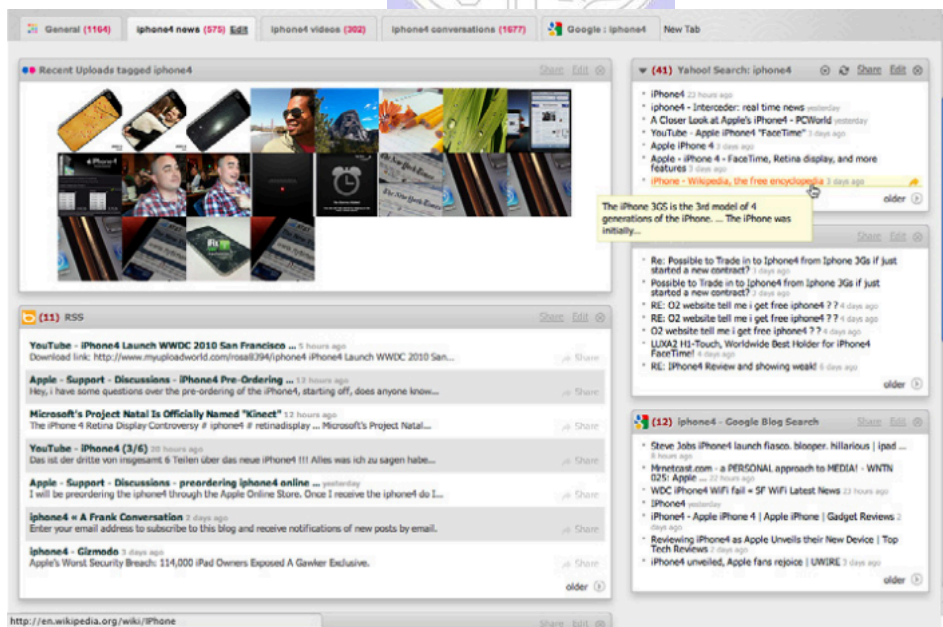
- My Yahoo! is a portal-style dashboard, showing weather, news, email, and other personalized information to a signed-in user. This is the kind of window that someone would check frequently throughout the day or week. It can be rearranged via Movable Panels, and a user can decide which sections and widgets to show.



- Google Analytics uses information graphics to show a visual snapshot of a system. In the figure below, the system is a website, and the dashboard illustrates log data.

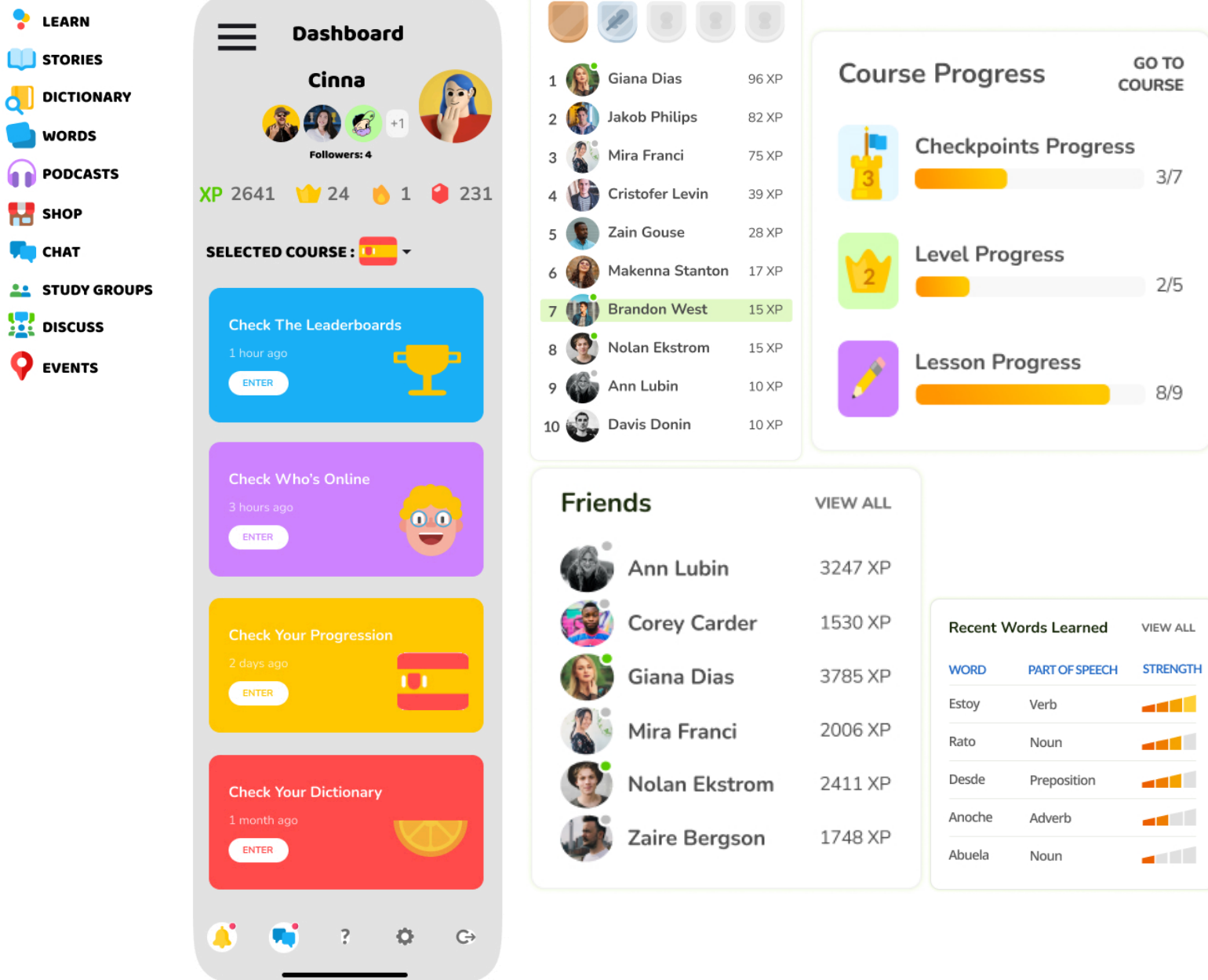


- Netvibes offers fully customizable dashboards that can be hooked up to a broad-based web search. With this, someone can stay abreast of conversations, pictures, and articles about a fast-moving topic. A tooltip shows the first few words of an article, which can help the user to decide whether to click through or not.



Procedure:

Create wireframes incorporating patterns with Form design for the chosen topic

Result:

Outcomes: Apply principles of Web interface design

Conclusion: (Conclusion to be based on the objectives and outcomes achieved)

In this experiment, we successfully created wireframes for a dashboard UI, focusing on applying key principles of web interface design. By arranging information in a clear and concise manner, using appropriate data visualizations, and allowing for user customization where applicable, the wireframes ensure that the dashboard is user-friendly and efficient. The design emphasizes quick access to important information without overwhelming the user, achieving the objective of creating a functional and intuitive dashboard interface.

Grade: AA / AB / BB / BC / CC / CD /DD

Signature of faculty in-charge with date

References:

1. Tidwell, Jenifer, "Designing interfaces: Patterns for effective interaction design. " O'Reilly Media, Inc.", 2010.
 2. Wilbert O. Galitz, "The Essential Guide to User Interface Design - An Introduction to GUI Design Principles and Techniques", Wiley Computer Publishing, Second Edition, 2002
 3. Bill Scott, Theresa Neil, "Designing Web Interfaces Principles & Patterns for Rich Interaction", O'rielly Media, First Edition, 2009
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