


Developer Space (D-Space)

Work in Progress...

 Developer Space is one of the main functions of the Prosperity 4 All platform.

Use Case/ Scenarios

To find the D-Space use cases/ Scenarios please refer to the GPII Wiki: http://wiki.gpii.net/index.php/Developer_Space





Comparative Analysis

The following analysis provides an overview of two different types of services that developers may use in their product development workflow:

1. Closed Developer Platforms: They encourage developers using their products by offering variety of tools and services e.g. Apple, Microsoft, Google
2. Open Developer Tools: They provide developers with tools, services and information to facilitate their workflow e.g. GitHub, CodeClimate

This analysis aims to reveal the components that must be incorporated within the D-Space as well as unique features to created added value for the D-Space

1. Closed Developer Platforms

Platform	Tools	Resources	Marketing/ Promotions	Community	Mentorship	Business Model
Google Developers	<ul style="list-style-type: none"> • Cloud credits to help developers build products  (Can we offer such credits or initial incentives?) • Early access to pre-release APIs and SDKs 	<ul style="list-style-type: none"> • Mix of Free/Paid Online courses both for the development and design • Featured talks and articles for design, development, distribution and monetizing  (Training modules to help developers market and sell their products) 	<ul style="list-style-type: none"> • Spotlight: Featured startups are shown here (first hand lessons, challenges and tactics)  (Featuring developer of the month gives them an incentive to participate and build products, etc) 	<ul style="list-style-type: none"> • Getting invited to the startup launch events around the world • Week-long bootcamps for early stage startups (Focused on the subject, Business oriented, practical tips, marketing and presentation skills)  (Interesting but maybe out of scope for P4A) 	<ul style="list-style-type: none"> • Mentorship from Startup Launch mentor network • UX reviews by Google Developer Relations and Startup Launch mentor for selected startup 	

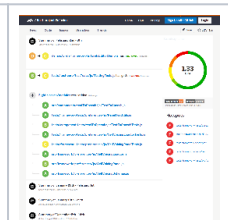
<p>Mozilla Developer Network</p>	<ul style="list-style-type: none"> • Libraries and APIs • Web Console • JS Debugger • Page Inspector • Style Editor • Profiler • Network Monitor • App manager • Simulator • Remote Debugging • Responsive Design View (This feature can be useful for designers as well) • Settings 	<ul style="list-style-type: none"> • Layout Basics • Styleguides • Design Asset Library (A link to asset libraries for different platforms) • Components guides • Publishing and Monetization guides • Developer Guide (CSS, Graphics, Web APIs, HTML, XML, SVG, UX, etc.) • Accessibility • Security • Demos 	<ul style="list-style-type: none"> • Featured Demos (Showcasing selected products not just on the D-Space, but on the entire platform) 	<ul style="list-style-type: none"> • Hacks Blog • Feedback channels in Stack Overflow • Members can edit documentations and showcase their work • Contributors receive Mozilla gear, invitation to Mozilla related events and considered for internships 	<ul style="list-style-type: none"> • TestDay: Global, virtual events to test a particular product or feature. Meant to teach people the skills necessary to contribute to Mozilla (Maybe every month a particular product is selected for testing, and review by the community) 	<ul style="list-style-type: none"> • All parts are created by an open community of developers. All services are free (You can find several pages that are not reviewed or completed) • Sustained through donations
<p>Apple Developers</p>	<ul style="list-style-type: none"> • SDKs • Programs certificates (Xcode) (Offering certificate for commonly used programs) • Programming language (Swift) • TestFlight Beta Testing (Inviting internal & External testers) • Review and Follow Guidelines after submission to App Store • Bug Reporter 	<ul style="list-style-type: none"> • iCloud Design Guide • iOS & OS developer library (Guides, References, Release Notes, Sample Code, Technical Code) • Apple Capabilities guidelines and Framework Reference (WatchKit, Touch ID, Apple Pay, etc.) • Videos from Apple Worldwide Developers Conference • iOS & OS videos • Tech Talks 		<ul style="list-style-type: none"> • Developer Forums (Paid Service) • Annual Worldwide Developers Conference 		<ul style="list-style-type: none"> • Subscription fee for technical support & resources and access to pre-release software

<p>Microsoft Developers Network</p>	<ul style="list-style-type: none"> Free Cloud Services APIs and SDKs Visual Studio 	<ul style="list-style-type: none"> Documentations for APIs and other references Developer Code Sample MSDN Library (Design & Development Tools and Languages, Mobile/Web /Office/Windows Development) 	<ul style="list-style-type: none"> Customer Access Program: Connecting promising startups with mature ideas to the Microsoft's global customers — (Matching Products/Developers with an idea to the right backers, or customers) 	<ul style="list-style-type: none"> Local Innovation Centers to provide resources and support for students, entrepreneurs and startups (Low or No cost training) — (Interesting but maybe out of scope for P4A) Microsoft Virtual Academy (Courses, Live Events, Top students) — Channel 9: featured videos, interviews and talks Imagine Cup: Global Students Technology Competition — (For issues/ideas/questions that are raised by many P4A users) Developer Blogs and Forums 	<ul style="list-style-type: none"> Accelerators: for promising early-stage startups and first time entrepreneurs (3-6 Month mentoring/ technical guidance and connection to other startups) Local Tech Advisers — Know it Prove it: a month long challenge to improve your skill and complete a set of required modules — (Leveling up your skills and turning consumers to producers) 	<ul style="list-style-type: none"> Subscription fee for some of the services
<p>Amazon Developers</p>	<ul style="list-style-type: none"> SDK Download App Testing (simple drag and drop) Live App Testing (App distribution in the app store prior to release to be tested by Amazon Testers) A/B Testing on the fly — (Useful tool for startups and entrepreneurs) 	<ul style="list-style-type: none"> Learning Center (videos, documentations, case studies) Marketing tips (Distribution, Traffic, Trademarks) — 	<ul style="list-style-type: none"> Amazon Coins Rewards to Customer to Improve Conversion Enhanced merchandising to improve discovery Free App of the Day (Featured merchandising) Developer Promotion Console (Increasing sales, monitoring results, controlling pricing options) — (It's very interesting but I don't know how it can be used in the D-Space) 	<ul style="list-style-type: none"> Events and Webinars Amazon Blog Amazon Forum 	<ul style="list-style-type: none"> Amazon Developer Evangelist — (Based on the developer's acquired badges, reviews and participation level, s/he can be nominated as an evangelist) 	

2. Developer Tools

Code Climate: Automated code review for Ruby, JS, and PHP.

- Multiple ways of quickly understanding the state of code at a glance
- Uses many visuals to convey status:
 - "A" to "F" scale to indicate the grade of a particular item
 - Up and down icons to indicate when something has improved or declined
 - "Hotspot" sidebar widget to show where important trouble spots are e.g. <https://codeclimate.com/tour/feed>
 - In **dashboard view**, security issues are called out for easy viewing.
- Notifications for when status changes.
- Project Feed to monitor any changes on the code base
- Dashboard** enables users to see multiple projects state at a glance
- Easy Toggle** between test coverage and code quality
- List of all features**



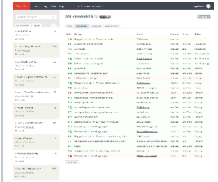
JS Hint: Scanning programs written in JavaScript to report commonly made mistakes and potential bugs e.g. syntax error, a bug due to implicit type conversion, a leaking variable.

- There is a sidebar which summarizes the code and identifies possible issues. As you hover over the identified issues, the related piece of code is highlighted.



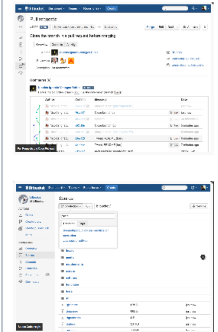
Travis-Ci: Continues integration service used to build and test projects hosted at GitHub.

- Uses visuals to convey status:
 - Badges to show if the build is failing, passing, unknown or if there is an error
 - The items on the build history, pull requests and branch summaries lists are labeled to show the status of the pulled requests (started, passed, failed)
- Easy option to download log



Bit Bucket: Private Code Repositories to host, manage and share Git and Mercurial repositories in the cloud.

- Repositories can be shared with team members
- Quick options to Merge, Decline or Approve changes
- Commits are interlinked with JIRA and can be resolved from the Bitbucket
- Capability to track your activity as well as your teammates



Google Code: Runs a project hosting service that provides revision control, an issue tracker, and a wiki for documentation.

- It has the following 3 sections:
 - Project home: project info, features, members, links
 - Wiki: documentations, comments, change logs
 - Source: Browse (branches, tags, etc), Changes (revisions, affected files)



3. Other Sites

Reddit

- A self-governed, community sourced news sharing site
- Default view is a list of trending items from a select number of sub-reddits (or "Subs"). Trending items are based on the number of views / clicks / votes.
- User can search and subscribe to Subs of a wide variety of topics
- Reddit has multiple metrics and economies in place
 - Gold - gold tokens are awarded by other users to people to encourage more good behaviour and participation. Gold token can be purchased by buying a reddit subscription or by earning them through participation.
 - Karma - there are two types of karma a user can earn: link karma, and comment karma. Karma is awarded by other community members by "upvoting". Conversely you can lose karma through "downvoting".

👤 Community-sourced content with a micro-economy.

👤 What becomes most visible is often what is more popular. Popularity alone may not be a good metric.

