

Website and Stakeholders, Goals and Task Analysis

Team 2 : The Berry Bunch

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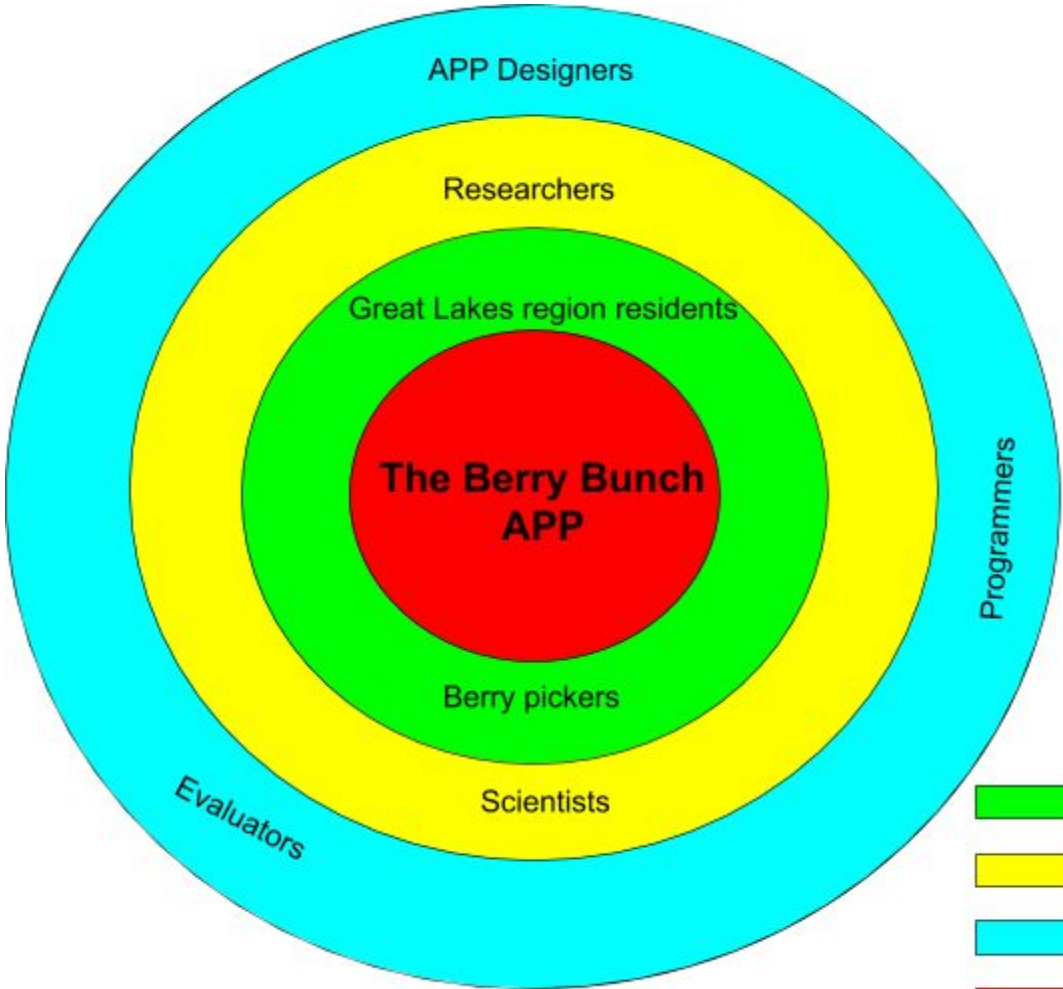
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System Description:

The Berry Bunch is an app which is trying to collect preliminary data about recreational berry picking and foraging across the region. It can also help to learn more about the diversity of berries in Great Lakes region, and for scientists to learn about harvest and demographics of berry pickers. Data such as berry harvests, cultural uses or demographic information are collected from the berry pickers. The app user can gain information about how to identify different types of berries, how to test for the presence of the fruit fly through a simple home test, and be able to see where others are finding berries throughout the region. The app can also provide some information to help to observe the effects on the diversity of berries due to the presence of spotted wing drosophila.

Onion Model for Stakeholders:



- Primary Stakeholders
- Secondary Stakeholders
- Tertiary Stakeholders
- The System

Stakeholder Descriptions:

The System:

The Berry Bunch APP is the core of the onion model and it is the subset of all other stakeholders. All other stakeholders will directly or indirectly use this app. This app can also provide information for some stakeholders.

Primary Stakeholders:

Primary stakeholders are eventual end users of our system. In my onion model, primary stakeholders could be berry pickers and Great Lakes region residents. Berry pickers can use this app to record harvests and residents can also use it to decide where to pick berries.

Secondary Stakeholders:

Secondary stakeholders directly support the primary users or use the results of the application. In my onion model, researchers and scientists are secondary stakeholders. Researchers and scientists can use the results of the APP to learn more about the diversity of berries in Great Lakes region and demographics of berry pickers.

Tertiary stakeholders:

Tertiary stakeholders are from the greater society and have influence on the project or are affected by the project. In my onion model, APP designers, evaluators and programmers are tertiary stakeholders. The performance of the APP depends on their decisions. Also, the feedback of the APP can affect their decisions.

Stakeholder Goal Influence Table:

Stakeholders	Goals	Influence
Berry Pickers	Record harvests and to learn more about the diversity of berries in Great Lakes region.	May provide user experience about this app. Also, they may find some bugs about this app.
Great Lake region residents	Use this app to know where to pick berries.	May provide some feedback about using this app. They can also contribute some opinions about how to optimize this app.
Researchers & Scientists	Learn more about the harvest and demographics of berry pickers. Observe how SWD may affect the health of berries as well as its potential impact upon social, cultural, and economic systems.	They may give some feedback about what kind of data should be collected in this app. They may also give some advice about how to design this app.
APP Designers	Try to design an user-friendly app which can not only make berry pickers and residents easy to use, but also can satisfy the	Designers are the core of the app. Their ideas will directly decide the performance of the app. They can also decide the

	<p>requirements of scientists and researchers. Also, try to make sure user's data are secure enough.</p>	<p>functionalities, appearance and some other attributes of the app.</p>
<p>Programmers</p>	<p>Implement the ideas from APP designers in code. Try to avoid bugs when during implementation.</p>	<p>Programmers are people who transfer ideas to code. How they implement those ideas will directly influence app's performance. Also, some logic errors during their implementation may cause some unexpected behaviors when primary and secondary stakeholders use the app.</p>
<p>Evaluators</p>	<p>Evaluate the app before it is used by real users. Try to find some bugs. Try to find some potential errors or security risk.</p>	<p>Evaluators will provide some feedback to APP designers and programmers. This feedback may have an influence on the designers' decisions. Evaluators may also detect some bugs or flaws of the app, therefore programmers can fix those bugs before it is used by real users. This may improve user</p>

		experience.
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Summary of Stakeholder Goal Influence Table:

For the primary stakeholders, since they are the end users of our system, they mainly use this app to know the location of berries and also record the harvests about berries. Residents can directly use the information provided by the app to know where to pick berries. Berry pickers can use this app to learn more about diversity of berries in this area. Based on their user experience, they can give some feedback about the interfaces and functionalities to optimize this app.

For the secondary stakeholders, they directly support the primary users or use the results of the application. In our model, secondary users are researchers and scientists. Scientists and researchers use the information provided by this app to observe how SWD may affect the health of berries as well as its potential impact upon social, cultural, and economic systems. Meanwhile, they can also give some feedback about the data collection. They can give some advice to help to collect data more efficiently.

For the tertiary stakeholders, they are from the greater society and have influence on the project or are affected by the project. App's performance will directly depend on App designers, programmers and app evaluators. Therefore, their goals are to try to make the app more user friendly and avoid bugs. Also, their decisions will directly affect the app such as functionalities or performance.

Personas:

Primary User Persona:

Name: Richard

Age: 36

Gender: Male

Hometown: Houghton

Descriptions:

Richard is a cashier in Houghton. He is interested in some outdoor activities such as hiking or running. Once during his hiking, he found some berries on the mountain. He took some of them home and his family really liked them. After that, picking berries became his new hobby. Previously, he had to explore berries by himself, which is a really time consuming work. Therefore, He is really interested in this app since it can help him save a lot of time. He also would like to use this app to share more information about berries with his family members. Picking berries already becomes a popular activity in his family.

Name: Jean

Age: 20

Gender: Female

Hometown: Houghton

Descriptions:

Jean is a resident in Houghton and she is also a student in Ecology. She likes eating berries. This semester, she is working on a topic about the plant diversity. She plans to use the diversity of berries as a case study in

her paper. She expects she can get some valuable information from this app since it will help her a lot in the final paper. She is also active in developing this app. She would like to give some feedback to help to optimize the app.

Secondary User Personas:

Name: James

Age: 27

Gender: Male

Hometown: Texas

James is a researcher who works for a university in Texas. His research focuses on the insects and their effects on the ecology system. Recently, he knows that spotted wing drosophila (SWD) is detected in Michigan. SWD can develop larvae inside the berries which can render berries unmarketable and rapidly reduce processed fruit quality, but little is known about its influence upon berries in forested areas or wild berries. James thinks it is a great topic to work on and he hopes he can get some useful data from this app to support his research work.

Name: Henry

Gender: Male

Hometown: Ohio

Henry is a scientist who is working on the ecology system. Recently, he just got a founding to support his research about the plant diversity. He already conducted some research on trees and flowers. Now, he is looking for a new plant to study. After he knew this app, he showed a great interest in this app since he thought this app can provide the information he required. He also would like to be involved in the development of this app and give some advice from an ecologist's view.

Simplified Hierarchical Task Analysis:

Login View:

- Log in

- Create account

Berry Map View:

- Search berry locations

- Mark berry locations

Berry Info View:

- Images

- Berry types

Record View:

- Edit harvest

- Check harvest

Profile View:

- Privacy settings

- Personal information

Contact View:

- Email

- Phone

- Location

Feedback View:

- Questions

- Suggestions

Summary of Simplified Hierarchical Task Analysis:

Berry pickers will use this app to record record harvests and to learn more about the diversity of berries in Great Lakes region, therefore, for each berry picker, we should create an account for them. Also, we provide the map which is more convenient for them to check the locations of different berries. In record view, they can upload or edit their record to the server, thus others can see their share. In profile view, we allow users to change passwords and personal information. We also provide contact view and feedback view. Users can give some suggestions for this app through feedback view.

For scientists and researchers, they can use this app to evaluate how spotted wing drosophila (SWD) affects the berries. They can check the information they want in berry info view.

Appendix: Scientist Meeting Notes:

2020-01-23:

Handed out “Backyard Berry App Summary” packet

- In depth explanation of the project and what they expect out of it
- Detailed ideas for form, content, and usage
- Will be shared with Piper later, will need to be put into the shared drive.

2020-01-30:

Tasks:

- Talk through the details of the app: design, function, profile

- Get new information about berry types from scientists
- User profiles: posting, public vs private, etc.

User personas:

- Registered user vs Guest user
 - Unregistered user or guest will have the same functions as a registered user but they won't be able to keep track of their past locations and environment.
 - A guest user wouldn't have access to the social forum, where recipes and data is uploaded between users. They will have access to the public map

Usability:

- Phone vs Desktop
 - Our understanding: web app that will open on your browser easily, but if possible (time restraints) we would convert the app from just browser friendly to phone friendly. While we would enjoy transforming it into a usable app, the web development is the basis of our design.