

Subsurface Proposal 14' Exporting HTML logbook

Subsurface is an very intersting project with great programmers where i can learn great things and gain experience.

I especailly selected the HTML logbook exporting because i have the needed programming skills and it is nice feature that will help anyone to export files that can be viewed on any computer, tablet or mobile device.

This project perfectly fits me i have a strong background in c++ / HTML5 and Javascript and i love working with QT.

What is your name, email address, and irc nickname?

Name: Gehad Mohamed ElRobey

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Major: Software Engineering Department

Degree Program: Undergraduate

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irc: Gehadelrobey

Describe any plans you have for the summer in addition to GSoC (classes, thesis, job, vacation, etc.).

My final exams are from 7th June to 26th June other than final exams i don't have any plans that will affect my tasks, I can make it my primary task during the summer. I'd like to work full time, about 40 hours per week.

What programming projects have you completed?

I worked on many college projects with c++ , Java , Php. Better add this projects

I wrote a complete Mathematics calculator in c++ and used QT.

I wrote many board games in Java.

I wrote an online test in php.

Better provide photos for the projects (screenshots for them) or links

What are your favorite programming tools (editor, etc.)?

I use linux most of the time, my favourite programming tools are

text editor: gedit

compilers : gcc

version control : git

IDE : eclipse

Building tools : cmake

Describe any work on other open-source projects.

List other GSoC projects you are applying to.

I am not applying to any GSoC projects this year.

Describe here that this is the first open source project you will work on and why you applied for this project and tell them that you want to continue working on the project after GSoC (if you really want) which will increase your chance

-When did you first hear about Subsurface?

I am not a diving fan, so i didn't used the application before.

-Do you have any diving experience? (this is not essential, we have devs that are not divers)

No, I never did diving before.

-What attracted you to Subsurface?

Subsurface is a growing project with great programmers and a perfect place where i can contrbuite into open source world and learn new things. **Add more..**

**better with details about each one
for example I am using
wordpress on my blog, boost in a game
called "something" that I implmented and so on**

-What other open-source tools do you use?

Linux, git, eclipse, phpmyadmin, wordpress, octave and Boost c++.

-Describe any participation by you in the Subsurface community (e.g. created tutorials, submitted

bug reports, asked or answered questions on mailing lists or IRC).

I Reported a bug, ticket #457 , I am Gehadelrobey on the IRC.

**Better to indicate that you are
working on some bug fixes and try to
do so, sleect a very simple bug and try
fix it and send a patch for them, don't fear
the application period, you can send it
after the students application period**

-Describe any contributions you have made to Subsurface development (e.g. bug fixes, translations, packaging, testing).

Nothing till now, but i gonna work on many before the project start to understand the structure of the code and the logic of the program.

**As mentioned above ^^ tell pick a bug and try fixing it
tell them you are working on it and trying to
understand the project structure and you think
you have enough time for doing so (take into
consideration the community bounding period)**

-In exactly two sentences, why should we pick YOU?

I should be picked because my qualifications and my programming experience are perfectly suitable to this project

I'm highly motivated, enthusiastic and knowledgeable individual. I'm always looking for a challenge, and constantly showing dedication to what i'm doing.

Tell them you will be a long time contributor they hope that

Requirements :

Export the log book into a fully functioning HTML that is system independant and use Javascript to provide dynamic experience.

The exported file will be supported by the following web-browsers:
firefox – chrome.

The exported file will work on different screen sizes and can work well on mobile phones and tablets.

The exported files will have user-friendly look with interactive menus and buttons.

The world Map where the user can see a list of dives and can choose between them.

Three exporting modes :

Make some rapid mockups, it will make what you are going to implement clear for them

1 – Quick export :

Export the default data quickly with minnum choises.

Exporting with the deafult style and font size.

2 – Advanced export :

Choose between themes (dark – light).

Choose size , font , style of the text.

Choose dives view : list or thumbnails.

3- Yearly Statistics export :

Exporting a digest with important statistics viewed in a nice way.

Plan :

The work will be divided mainly into 4 Tasks with iterative way for implementation.

I will start working on the c code of the exporter (1st milestone)

then Implementing the css themes (design, applying , debugging) (2nd milestone)

followed by adding features to the exporter and adding the exporting windows to the UI (3rd milestone)

adding the world map feature (4th milestone)

Implementing the basic exporter (warming up)

Description : implementing the c exporter, is an easy task it will be implemented in save-html.c exports utf-8 to the file. Exporting Dive list and Info.

result : the dive list is dumped well to the html files

Unit Test & debugging (1st milestone)

Description : testing by dumping data and make sure it works well with no bugs

result : perfectly working exporter.

Implementing the css (two themes) (2nd milestone)

Description :

designing the 1st theme , community feedback and implementing the 1st theme

designing the 2nd theme , community feedback and implementing the 2nd theme

testing them on different web browsers with different screen resolutions

Result : the info + the dive list exported with the theme + javascript working + additional features like hovering shows info.

good page design that acquires the community approval. + working on different screens and web browsers .

Implementing the export windows + exporting options

Description : this adds to the existing ui the exporting window.

result : operating the exporter from inside subsurface main ui (mainwindow.cpp)
implementing two windows for exporting

adding advanced features to the exporter (3rd milestone)

Description : adding advanced features to the exporter + adding the profile (implemented by html5 canvas)

adding exporting statistics feature.

result : choose font, style, size, and other features.

Testing and documentation and a tutorial.

Description : testing the whole project, completing the documentation writing through the development stage.

Writing a 1 page tutorial to help users getting to know exporting features.

result : working project and getting feedback from community

World map (4th milestone)

Description : adding the world map of dives and make it interactive by Javascript
zooming feature and panning

google maps will be mainly used.

result : adding the worldmap of dives where you can choose all your dives

Time Plan :

Total time available : 11 weeks

I have final exams on the period from 7th june till 26th june so working in this period will be 4-5 hours / day

Available Time :

Sat	Sun	Mon	Tue	Wed	Thu	Fri
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

May 2014

Sat	Sun	Mon	Tue	Wed	Thu	Fri
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

June 2014

Sat	Sun	Mon	Tue	Wed	Thu	Fri
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

July 2014

Sat	Sun	Mon	Tue	Wed	Thu	Fri
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

August 2014

Green : 8-9 Hrs / day

Yellow : 5-6 Hrs/ day

Red : 4-5 Hrs/day

19 May: Begin coding

23 June: Mid-term evaluations

11 August: "Pencils down" with a one-week grace period.

Task	from	to	Period
Implementing the basic exporter (warming up)	19th May	23th May	5 days
Unit Test & debugging (1st milestone)	24th May	26th May	3 days
Impementing the css (two themes) (2nd milestone)	27th May	14th June	20 days
Implementing the export windows + exporting options	15th June	19th June	5 days
adding advanced features to the exporter (3rd milestone)	20th June	27th June	8 days
Testing and documentation and a tutorial.	28th June	1st July	4 days
World map (4th milestone)	2nd July	9th July	8 days

Risk Management :

the biggest risk during the project is the time. As i will have my final exams at the time of the midterm evaluation. So in my time plan i planned to finish all the time consuming tasks before the exams period, i will finish the most important part in the project before the midterm evaluation (3rd milestone) .