

AceEngineer Oil and Gas

Marine Offshore Structural Engineering

AceEngineer Internal

Web Report Format

Development Plan

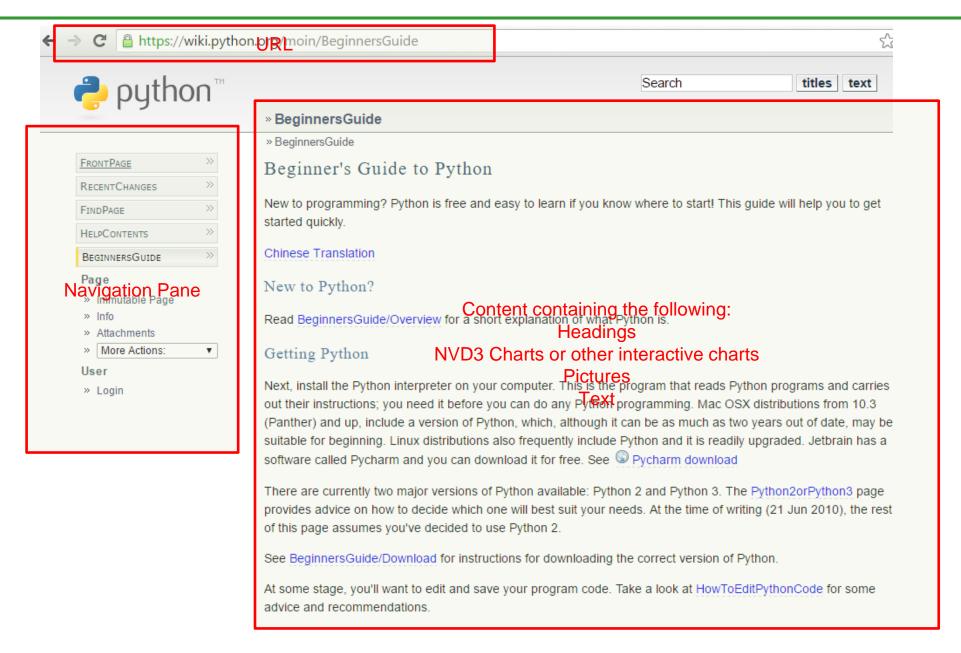
4th July 2016

Introduction

- Web report should be such that
 - Display all text and tables
 - Display plots in interactive manner as much as possible
 - Display pictures/figures
 - Should have navigation bar on the left to easily navigate across the report with ease
- Should be device independent (as much as possible). Clients may use tablets, desktops or phones (Windows, apple or android)
- There may be templates already existing to develop the entire webpage with the design described in this section.
 Search/research online
- D3JS or Python or PHP may already contain something similar that we can fork from?



General Layout





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Navigation Pane

- Navigation pane should be
 - URL driven
 - Clickable
 - Should have scrolling independent from main content page



Content

Content Should

- Headings: 3 levels (3, 3.1, 3.1.2)
- Based on heading definitions, the navigation pane should be automatically created. No need to program this again

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- Should support interactive charts, figures, tables etc.
- Ability to click to expand figures and click to again unexpand
- Etc.



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Why Web Reports? – Current Process

Analysis Process

Calculations 10-15 files (5 revisions) **Excel** 2-3 Engineers

Engineering Software Files 50-100 files (10 Revisions) 1-2 Engineers

Result Files
10-20 files
(5 Revisions)
Excel
2-3 Engineers

Reporting Process

Word 1-3 files (5 revisions) **Word** 2-3 Engineers

PDF 1-3 files (5 revisions) 1-2 Engineers



Web Report Process - Vision

Analysis Process

Reporting Process

Calculations
10-15 files (5
revisions)
Excel
2-3 Engineers

Engineering
Software Files
50-100 files
(10 Revisions)
1-2 Engineers
.csv files

Result Files
10-20 files
(5 Revisions)
Excel
2-3 Engineers

Word
1-3 files (5
revisions)
Word
2-3 Engineers

Web Report 1-3 files (5 revisions) 1-2 Engineers

Standardization of processes
Easy updates with programming/automation
Enhanced features using web reports



Presentation Title

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Rev	Description	Date	Author	Checked	Approved
01	New document	20 January 2016	V Achanta	-	-



Chart Capabilities - Vision

- Ability to add notes to chart to show significant events
- Have the ability to make notes visible or invisible based on user interaction
- Google finance design of events on stock chart is a very good start (see notes on right and labels on chart)





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