

Project Statement

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- Create an interactive BCH project design assistant, which will provide a list of required design elements such as:
 - Stakeholder contacts
 - Passport CUGs
 - Design stamps
 - Instructions
 - Additional Notes
 - JPF/DDEC information
 - Safety-by-Design Information
- This program will serve as a supplementary checklist to ensure that design work is done efficiently and accurately, as per BC Hydro EDQA standards.
- The program will be further developed to be modifiable such that it may serve any business

Supported Platforms

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Current plan is for the project to be deployed on Windows.

Planned Features

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- Display required CUGs
 - Write to excel so they can be copied
- Generate mock layouts for designs
- Generate text for design stamps

DDEC

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Stakeholder Correspondence

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Passport

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DAD Design

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- Allow for the selection of poles, electrical equipment

Project Management & QoL

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This section lists included features

- **Managing Projects**

- ***Project deadline/timeline management***
 - ◆ Can be set by reviewers and higher within a certain team. Senior permission can overwrite deadlines etc. The creator of the flag can
 - ◆ Can include an urgency flag
 - ◆ Alerts for specific required items can be set. (Ex: Send for SRW, enviro, FN by a certain date. DAD & Passport on another date, complete package by another date)
 - ◆ Can indicate target working hours for each project/package (possibly with timer the designer can use)
- ***Custom designer deadline/timeline management***
 - ◆ Can be created by the designer
 - ◆ Will not conflict with Project timeline notifications
 - ◆ Will serve simply as a way to further help designers organize their time
 - ◆ Will include all features of the project management settings
- ***Project distribution***
 - ◆ Assign specific designers to a project or package
 - ◆ Notify designers when such a project is designed
- ***Managing stakeholder correspondence***
 - ◆ Record correspondence dates
 - ◆ Correspondence alerts
 - ◆ Use company email to communicate with stakeholders
 - ◆ Custom email templates for stakeholders
- ***Project Submission***
 - ◆ Send through company email
 - ◆ Customizable email templates
 - ◆ Store submission info in database
 - ◆ Alert recipient of submission
 - Option for including submission message
 - ◆ Alert return for review

User Navigation & QoL

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- **GUI**



- Customizable design templates which allow different users within different industries to utilize the software (Down the line feature. Software will initially exclusively support BCH projects)

- Combo menus for equipment attributes or other specifications
- Text fields for custom notes and additional dropdown menus for project settings
- Customizable themes, fonts, text magnification

- **Project Information Management**

- ***Create, Save and Remove Projects***

- ◆ Project files will store information on project title, clients, status etc.
 - ◆ Project files can be stored on the server and called upon as needed
 - ◆ Projects may be removed through deleting these files or through the program itself. They may also be relocated and shared

- ***Contact Management***

- ◆ Store key stakeholder or team member contacts
 - ◆ Universally required contacts may be made available to all users within the team, company or project, or to a user defined list of other users

Required Info

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- Pole Class
- Pole Height
 - Setting depth
- Framing/Standard Number
- Electrical Devices
- Guying and Anchoring
- Conductor Type
- TELUS/Third party
- Splices
- Private Property
- Environmental, FN/IR and Arch risks
- Soil Condition
- Vegetation
- Span lengths
- Project type (RDE, B3, Q3, MPW, SI etc.)
- Dips

Milestones

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TODO

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LEGEND

- Incomplete Item
 - Not Started
 - ❖ Urgent
 - In Progress
 - Near Completion/Low Priority
- ✓ Complete Item

07/05/2023

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- ☒ ✓ Integrate GitHub
- ☐ □ Project definition
- ☐ □ Organization
- ☐ □ Feature definition

Tools

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- C++
- Qt (or other GUI tool)
- MS Visual Studio
- Git/GitHub
- PowerShell (?)
- Python (?)