CECS-343 SWE Intro — Parts CRC Cards Example

Parts CRCs Example
o- Input: The UCs built earlier
 UC: VCS – Create Repository
  2. Create a new Repository in a folder
      for a Project Tree of folders/files.
  3. **Summary**: See PDF assignment
  4. **Role**: VCS User
  6. **Main-Scen**:
   o- Get source & target;
   o- Start new manifest file
       with cmd-line & timestamp

   o- Traverse source tree: for each file: {
   o- Create file's CPL ID
   o- Add file line to Manifest
   o- Copy file into repo w CPL filename }
  5. **Data Parts**: Repo, Manifest, File, CPL-ID,
      Treewalker, VCS-User
Key: Try to limit couplings in the control graph.
Note: How UC(s) **mismatches** Parts CRCs, also note awkwardness in choosing parts & placing responsibilities. (Cards are cheap. Try ideas.)
Q: Who should be boss of (or collab with) who?

PARTS CRC — UCS

MANIFEST
- ADD CMD-LINE (VIA PIECES?)
- ADD TIMESTAMP
- ADD FILE LINE VIA PIECES

SUPTS:
- FILE
- REPO

FILE — UCS
- GET PATHNAME
- GET LENGTH
- COPY TO TARGET, WITH CPL NAME
- TELL MANIFEST ABOUT COPYING FILE

SUPTS:
- MANIFEST
- CPL-ID

CPL-ID — UCS
- CALC FILE'S C-ID VIA FILE BYTE SCAN
- COMPOSE CPL-ID WITH FILE'S PATH & LENGTH

- FILE

VCS-USER — UCS
(DOES UI DIALOG)
- START UI DIALOG (PUT UP WEB PAGE?)
- GET CMD
- GET PROJECT TREE PATH
- GET REPO PATH

SUPTS:
- REPO

TREEWALKER — UCS
- MAYBE SETUP TREEWALK?
- GET NEXT FILE
- MAYBE CREATE OUR FILE OB?
- TELL FILE TO COPY ITSELF

- FILE

REPO (& BOSS) — UCS
- KNOWS PROJECT FOLDER
- KNOWS REPO FOLDER
- GETS CMD-LINE PARTS FROM VCS-USER
- STARTS (CREATE?) MANIFEST W CMD-LINE PARTS
- STARTS (CREATES?) PROJECT FOLDER TREEWALK

- VCS-USER
- MANIFEST
- TREEWALKER