**Test Plan**

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**Menu testing**

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| Condition | Input | Result |
| Menu input 1 first | 1 | For College: Algonquin  Back to menu |
| Menu input 2 | 2 (then CST1010) | Enter name of course to add: |
| Menu input 3 | 3 (then 0, g, 20180103, 12345, 64) |  |
| Menu input 1 | 1 | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0  12345 64 20180103 current: 229460.0 previous: 24455.0] |
| Menu input 4 | 4 | Chain for CST1010 is verified |
| Menu input 5 | 5 (then 0) | Chain is fixed |
| Menu input 6 |  | Goodbye |

Adding new courses / Checking overlap

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| Condition | Input | Result |
| Menu input 2 first | 2 (then CST1010) |  |
| Menu input 1 |  | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0] |
| Menu input 2 | 2 (then CST1010) | Invalid course name: there is a same course name |
| Menu input 1 |  | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0] |
| Menu input 2 | 2 (then CST2020) |  |
| Menu input 1 |  | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0]  For course: CST2020  [  0 100 2152018 current: 24455.0 previous: 0.0] |
| Menu input 2 | 2 (then CST2020) | Invalid course name: there is a same course name |

Adding good block / bad block

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| Condition | Input | | Result |
| Menu | Next step |
| Adding course first | 2 | CST1010 |  |
| Adding course | 2 | CST2020 |  |
| Adding block (good and bad block) | 3 | 0, g, 20180912, 012345678, 89 |  |
| Display course | 1 |  | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0  12345678 89 20180912 current: 369621.0 previous: 24455.0]  For course: CST2020  [  0 100 2152018 current: 24455.0 previous: 0.0] |
| Adding good block (good and bad block) | 3 | 0, g 20180131, 021345678, 45 |  |
| Display course | 1 |  | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0  12345678 89 20180912 current: 369621.0 previous: 24455.0  21345678 45 20180131 current: 471884.0 previous: 369621.0]  For course: CST2020  [  0 100 2152018 current: 24455.0 previous: 0.0] |
| Adding bad block (good and bad block) | 3 | 0, d, 20180231, 031245678, 56 |  |
| Display course | 1 |  | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0  12345678 89 20180912 current: 369621.0 previous: 24455.0  21345678 45 20180131 current: 471884.0 previous: 369621.0  31245678 56 20180231 current: 584385.0 previous: 0.25191796]  For course: CST2020  [  0 100 2152018 current: 24455.0 previous: 0.0] |
| Adding bad block (first bad input then good) | 3 | 1, d, 20180111, 045612378, 57 |  |
|  | 1 |  | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0  12345678 89 20180912 current: 369621.0 previous: 24455.0  21345678 45 20180131 current: 471884.0 previous: 369621.0  31245678 56 20180231 current: 584385.0 previous: 0.25191796]  For course: CST2020  [  0 100 2152018 current: 24455.0 previous: 0.0  45612378 57 20180111 current: 747642.0 previous: 0.6843672] |
| Adding good block (first bad input then good) | 3 | G, 20181014, 78456123, 32 |  |
|  | 1 |  | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0  12345678 89 20180912 current: 369621.0 previous: 24455.0  21345678 45 20180131 current: 471884.0 previous: 369621.0  31245678 56 20180231 current: 584385.0 previous: 0.25191796]  For course: CST2020  [  0 100 2152018 current: 24455.0 previous: 0.0  45612378 57 20180111 current: 747642.0 previous: 0.6843672  78456123 32 20181014 current: 1120876.0 previous: 747642.0] |

Verify chain

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| Condition | Input | | Result |
| Menu | Next step |
| Display courses (same display above except for last block of CST1010) | 1 |  | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0  12345678 89 20180912 current: 369621.0 previous: 24455.0  21345678 45 20180131 current: 471884.0 previous: 369621.0]  For course: CST2020  [  0 100 2152018 current: 24455.0 previous: 0.0  45612378 57 20180111 current: 747642.0 previous: 0.68467236  32 20 78456123 current: 891547.0 previous: 0.41446698] |
| Verify chain | 4 |  | Chain for CST1010 is verified  Chain for CST2020 is not verified |
| Adding bad block to CST1010 | 3 | 0, d, 20180910, 45612783, 65 |  |
| Verify chain | 4 |  | Chain for CST1010 is not verified  Chain for CST2020 is not verified |
| Adding good block to CST2020 | 1 | G, 20180101, 52316478, 98 |  |
| Verify chain | 4 |  | Chain for CST1010 is not verified  Chain for CST2020 is not verified |
| Display courses | 1 |  | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0  12345678 89 20180912 current: 369621.0 previous: 24455.0  21345678 45 20180131 current: 471884.0 previous: 369621.0  45612783 65 20180910 current: 747656.0 previous: 0.23593259]  For course: CST2020  [  0 100 2152018 current: 24455.0 previous: 0.0  45612378 57 20180111 current: 747642.0 previous: 0.68467236  32 20 78456123 current: 891547.0 previous: 0.41446698  52316478 98 20180101 current: 823825.0 previous: 891547.0] |

Fixing a chain

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| Condition | Input | | Result |
| Menu | Next step |
| Adding good block to CST1010 | 3 | 0, g, 20100531, 23165478, 89 |  |
| Display courses | 1 |  | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0  12345678 89 20180912 current: 369621.0 previous: 24455.0  21345678 45 20180131 current: 471884.0 previous: 369621.0  45612783 65 20180910 current: 747656.0 previous: 0.23593259  23165478 89 20100531 current: 491660.0 previous: 747656.0]  For course: CST2020  [  0 100 2152018 current: 24455.0 previous: 0.0  45612378 57 20180111 current: 747642.0 previous: 0.68467236  32 20 78456123 current: 891547.0 previous: 0.41446698  52316478 98 20180101 current: 823825.0 previous: 891547.0] |
| Fixing chain (CST1010) | 5 | 0 | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0  12345678 89 20180912 current: 369621.0 previous: 24455.0  21345678 45 20180131 current: 471884.0 previous: 369621.0  23165478 89 20100531 current: 491660.0 previous: 471884.0]  For course: CST2020  [  0 100 2152018 current: 24455.0 previous: 0.0  45612378 57 20180111 current: 747642.0 previous: 0.68467236  32 20 78456123 current: 891547.0 previous: 0.41446698  52316478 98 20180101 current: 823825.0 previous: 891547.0] |
| Adding bad block to CST2020 | 3 | 1, d, 20130311, 21346578, 55 |  |
| Fixing chain | 5 | 1 |  |
| Display courses | 1 |  | For College: Algonquin  For course: CST1010  [  0 100 2152018 current: 24455.0 previous: 0.0  12345678 89 20180912 current: 369621.0 previous: 24455.0  21345678 45 20180131 current: 471884.0 previous: 369621.0  23165478 89 20100531 current: 491660.0 previous: 471884.0]  For course: CST2020  [  0 100 2152018 current: 24455.0 previous: 0.0  32 20 78456123 current: 891547.0 previous: 24455.0  52316478 98 20180101 current: 823825.0 previous: 891547.0] |