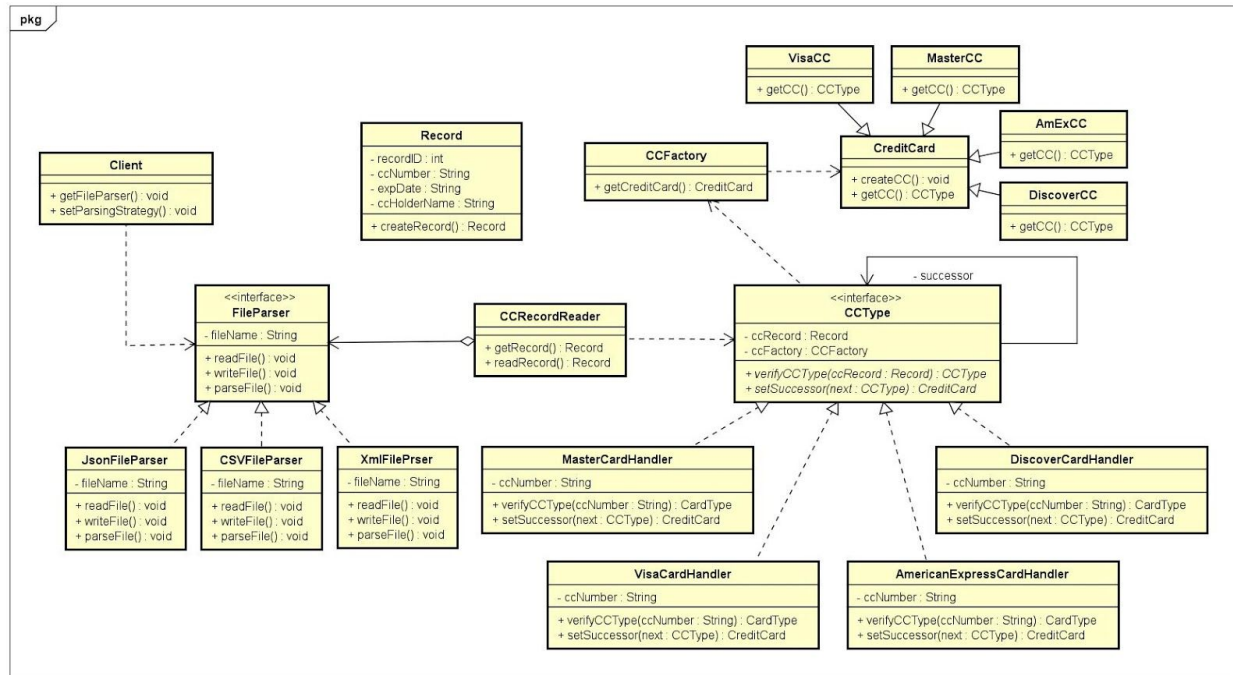


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The above is the final class diagram extending the previous class diagram to parse different types of input file and write the details about each card entry after recognizing its card type. The design pattern used for the different file formats is **Strategy Design Pattern**. I have created the FileParser interface including parse and write operations. JsonFileParser, CSVFileParser and XmlFileParser classes implement the FileParser interface. The Client class contains the logic to get the exact FileParser class to parse and write the output file. This Strategy design pattern helps us to accommodate other types of file parser classes in the design whenever required in the future without modifying the current design.