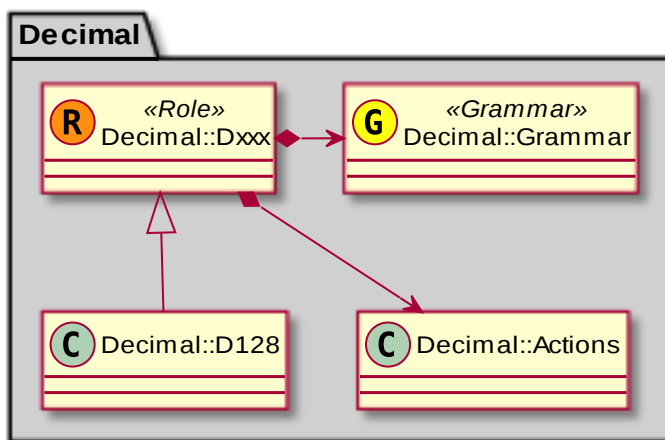# Bugs and Todo notes

Todo

This project is started within the BSON project to have a specific type, namely Decimal128, available. Other types are not needed as well as arithmetic operations, as long that the number could be retrieved in the native language such as FatRat, Rat and Num. Str type can be added and for tests a Bool type to see if the object is defined and non zero.

The reason to refactor is that this could be added later which do not concern the BSON project such as the afore mentioned arithmetic operations. Furthermore, there are C-libraries which could be installed and then use the nativeCall interface to use the library's API.

class model

All constants and subs are going into the package **Decimal**. The common routines are defined in the role **Decimal::Dxx**. The specific methods for some type are set in e.g. class **Decimal::D128**. The **Decimal::Grammar** and **Decimal::Actions** are used to parse strings representations of the number.

Todo priority list

- encode decimal string to BCD. One digit per nibble or one digit per byte.
- encode BCD (one digit per byte) into densely packed decimal (DPD).
- encoding Decimal types into Buf.
- decoding Buf into Decimal types.

Todo list for later additions

- support for other Decimal types such as 32 and 64 bit variants.
- make use of c-library from spelotrove. Now it is used to check the resulting formats.
- add arithmetic operations.

Bugs