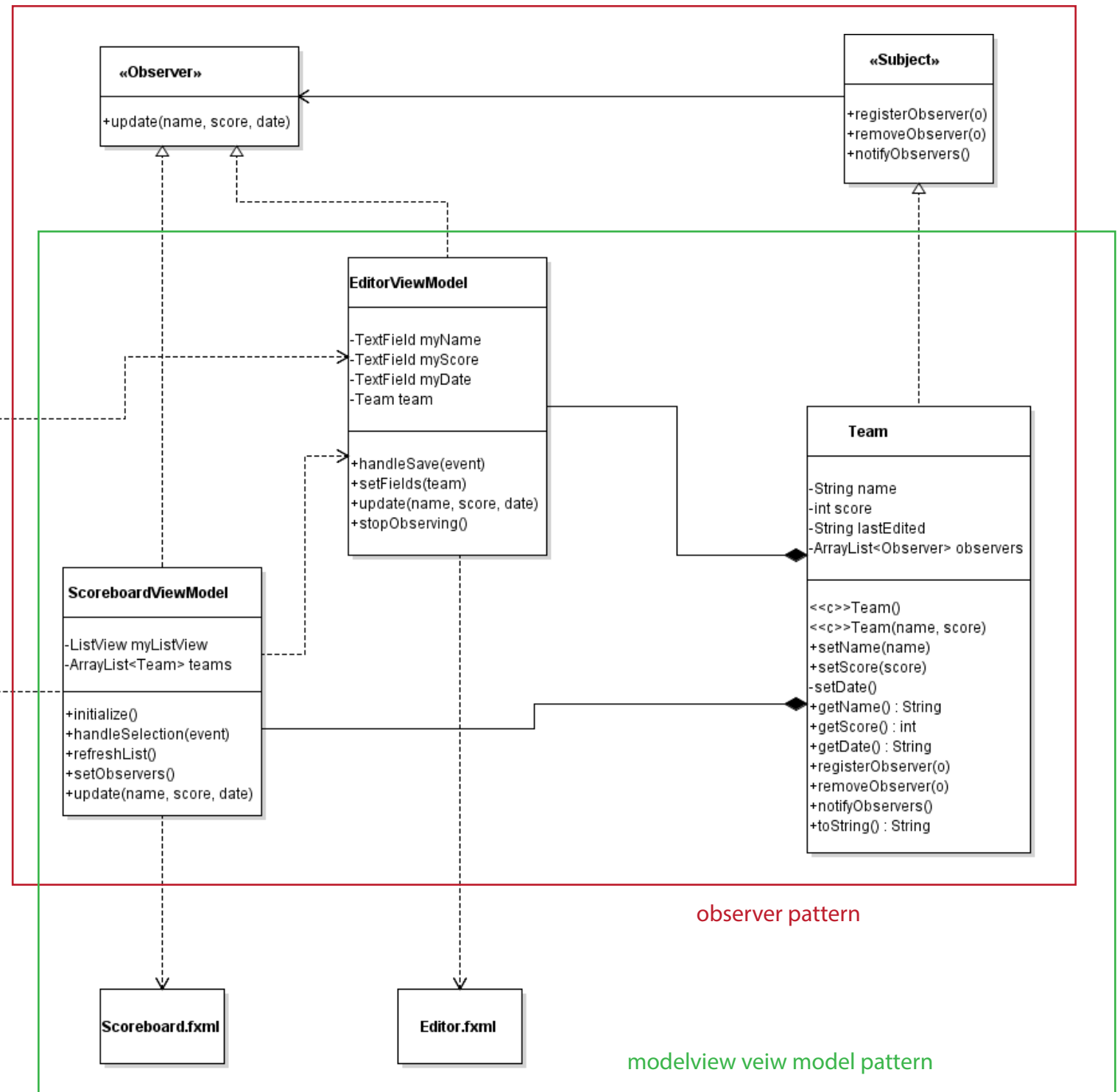


facade pattern



observer pattern

modelview veiw model pattern