

## Fedena (generic) Tax (module)

### Models

#### 1. **TaxSlab**: records various tax slabs

##### a. Associations

- i. *belongs\_to* :tax\_group
- ii. *has\_many* :taxable\_slabs
- iii. *has\_many* :finance\_fee\_collections,  
:through => :taxable\_slabs, :source => :taxable,  
:source\_type => 'FinanceFeeCollection'
- iv. *has\_many* :finance\_fee\_particulars,  
:through => :taxable\_slabs, :source => :taxable,  
:source\_type => 'FinanceFeeParticular'

##### b. Database

- i. id :integer
- ii. name :string
- iii. description :string
- iv. rate :decimal
- v. school\_id :integer
- vi. timestamps

##### c. Validations

- i. *validates\_presence\_of* :name
- ii. *validates\_presence\_of* :rate
- iii. *validates\_numericality\_of* :rate, :greater\_than\_or\_equal\_to => 0

#### 2. **Configuration**: Adding new tax settings

- i. EnableFinanceTax
- ii. FinanceTaxName
- iii. FinanceTaxIdentificationLabel
- iv. FinanceTaxIdentificationNumber

3. **TaxAssignment**: records current tax slab for a particular / collection. It has a polymorphic relation with FinanceFeeParticular, InstantFeeParticular

a. Associations

- i. *belongs\_to :taxable, :polymorphic => true*
- ii. *belongs\_to :tax\_slab*

b. Database

- i. taxable\_id :integer
- ii. taxable\_type :string
- iii. tax\_slab\_id :integer
- iv. school\_id :integer
- v. timestamps

c. Validations

4. **TaxCollection** records tax to be collected for a particular/collection. It has polymorphic association with particulars / collection (FinanceFeeParticular, HostelFeeCollection, InstantFeeParticular and TransportFeeCollection) and various fees (FinanceFee, HostelFee, InstantFee and TransportFee)

a. Associations

- i. *belongs\_to :taxable\_entity, :polymorphic => true*
- ii. *belongs\_to :taxable\_fee, :polymorphic => true*
- iii. ~~*has\_many :tax\_payments*~~

b. Database

- i. taxable\_entity\_id :integer
- ii. taxable\_entity\_type :string
- iii. taxable\_fee\_id :integer
- iv. taxable\_fee\_type :string
- v. tax\_amount :decimal,  
:precision => 10, :scale => 4
- vi. school\_id :integer
- vii. timestamps

c. Validations

5. **TaxPayment** records tax collected in a transaction for a particular/collection. It has polymorphic association with particulars / collection (FinanceFeeParticular, HostelFeeCollection, InstantFeeParticular and TransportFeeCollection) and various fees (FinanceFee, HostelFee, InstantFee and TransportFee)

a. Associations

- i. *belongs\_to :taxable\_entity, :polymorphic => true*
- ii. *belongs\_to :taxable\_fee, :polymorphic => true*
- iii. *belongs\_to :tax\_collection*
- iv. *belongs\_to :finance\_transaction*

b. Database

- i. *tax\_collection\_id :integer*
- ii. *taxable\_entity\_type :string*
- iii. *taxable\_fee\_id :integer*
- iv. *taxable\_fee\_type :string*
- v. *tax\_amount :decimal,*  
*:precision => 10, :scale => 4*
- vi. *finance\_transaction\_id :integer*
- vii. *school\_id :integer*
- viii. *timestamps*

c. Validations

6. **CollectibleTaxSlab** (*polymorphic join model*): records tax slabs with respect to particular / collection while creating a collection, so later if tax slab changes for a particular or collection, already created collections remain unaffected.

a. Associations

- i. *belongs\_to :collectible\_entity, :polymorphic => true*
- ii. *belongs\_to :collection, :polymorphic => true*
- iii. *belongs\_to :tax\_slab*

b. Database

- i. *collectible\_entity\_type :string*
- ii. *collectible\_entity\_id :integer*
- iii. *collection\_type :string*
- iv. *collection\_id :integer*
- v. *tax\_slab\_id :integer*
- vi. *timestamps*

c. Validations

7. **FinanceFeeCollection** (modification): additional tax associations

a. Associations

- i. *has\_many* :tax\_slabs, :as => :taxable
- ii. *has\_many* :taxable\_slabs, :through => :taxables
- iii. *has\_many* :tax\_payments, :as => :entity\_taxable

b. Database

- i. *is\_tax\_enabled* :boolean

c. Validations

8. **FinanceFeeParticular** (modification): additional tax associations

a. Associations

- i. *has\_many* :tax\_slabs, :as => :taxable
- ii. *has\_many* :taxable\_slabs, :through => :taxables
- iii. *has\_many* :tax\_payments, :as => :entity\_taxable

b. Database

c. Validations

9. **FinanceFeeDiscount** records discount to be applied for each particular on a student finance fee record. It is associated with finance\_fee\_particulars & finance\_fee

a. Associations

- i. *belongs\_to* :finance\_fee
- ii. *belongs\_to* :finance\_fee\_particulars
- iii. *belongs\_to* :fee\_discount

b. Database

- i. *finance\_fee\_particular\_id* :integer
- ii. *finance\_fee\_id* :integer
- iii. *fee\_discount\_id* :integer
- iv. *discount\_amount* :decimal,  
:precision => 10, :scale => 4
- v. *school\_id* :integer
- vi. *timestamps*

c. Validations

10. **FinanceFee** (*modifications*): additional tax associations and tax field(s)

a. Associations

i. *has\_many* :tax\_payments, :as => :taxable\_fee

b. Database

i. tax\_amount :decimal, :precision => 10, :scale => 4

11. **FinanceTransaction** (*modifications*): additional tax associations and tax field(s)

a. Associations

i. *has\_many* :tax\_payments

b. Database

i. tax\_amount :decimal, :precision => 10, :scale => 4

ii. tax\_included :boolean

Hostel Plugin ( *modifications* )

12. **HotelFeeCollection**: additional tax associations and tax field(s)

a. Associations

i. *has\_many* :tax\_slabs, :as => :taxable

ii. *has\_many* :taxable\_slabs, :through => :taxables

iii. *has\_many* :tax\_payments, :as => :entity\_taxable

b. Database

i. *is\_tax\_enabled* :boolean

13. **HostelFee**: additional tax associations and tax field(s)

a. Associations

i. *has\_many* :tax\_payments, :as => :taxable\_fee

b. Database

i. tax\_amount :decimal, :precision => 10, :scale => 4

## Transport Plugin ( modifications )

### **14. TransportFeeCollection**

#### a. Associations

- i. *has\_many* *:tax\_slabs, :as => :taxable*
- ii. *has\_many* *:taxable\_slabs, :through => :taxables*
- iii. *has\_many* *:tax\_payments, :as => :entity\_taxable*

#### b. Database

- i. *tax\_mode* *:string*

#### c. Validations

### **15. TransportFee**

#### a. Associations

- i. *has\_many* *:tax\_payments, :as => :taxable\_fee*

#### b. Database

- i. *tax\_amount* *:decimal, :precision => 10, :scale => 4*

#### c. Validations

## Instant Fee Plugin ( modifications )

### **16. InstantFeeParticular**

#### a. Associations

#### b. Database

#### c. Validations

### **17. InstantFeeDetail**

#### a. Associations

b. Database

i. tax\_amount

:decimal, :precision => 10, :scale => 4

c. Validations

**18. InstantFee**

a. Associations

b. Database

c. Validations

19.