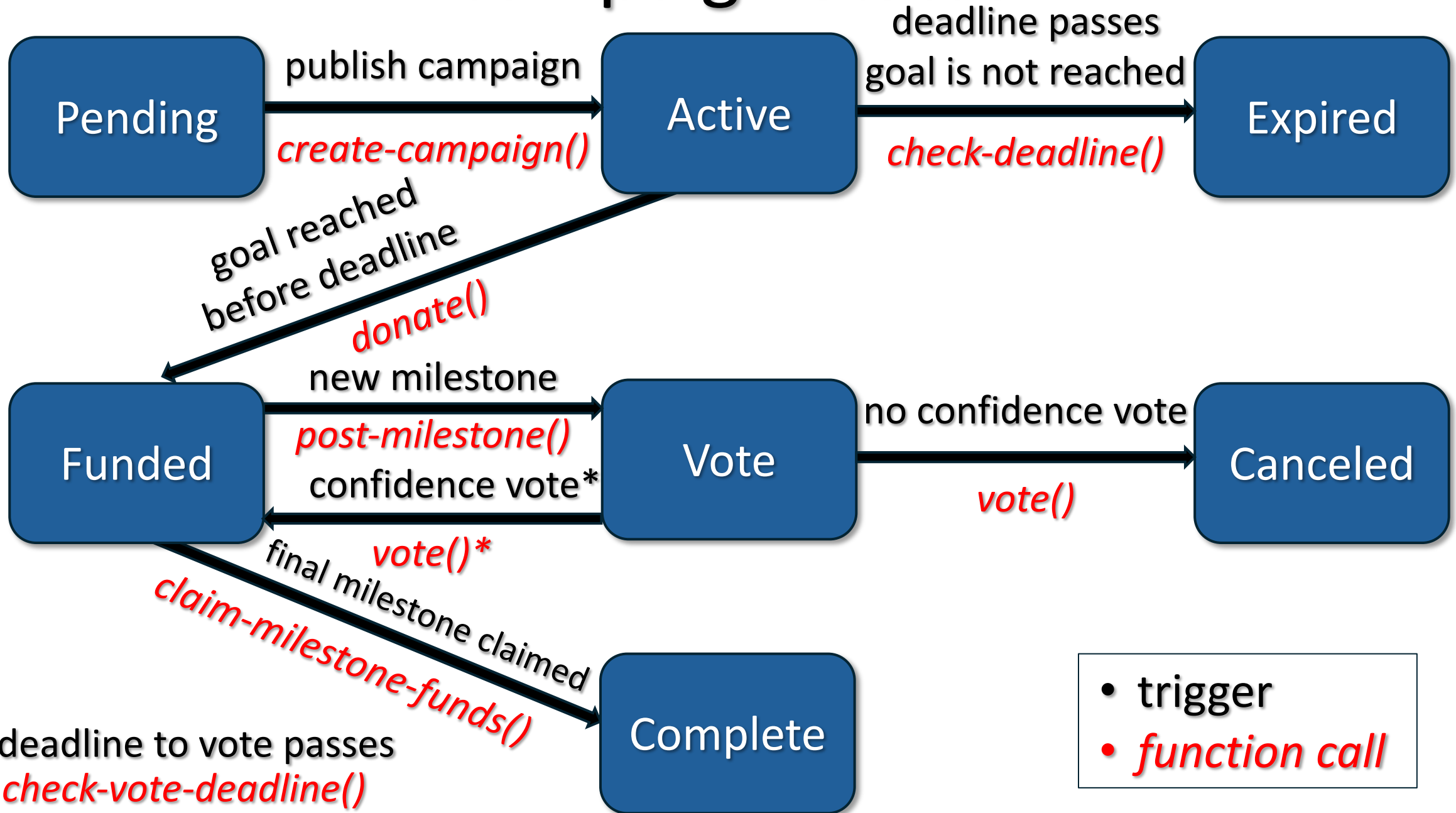


Campaign Status



Public Functions

Public Function: create-campaign()

```
;; Cast the user's vote for the specified milestone.  
;; Creates and activates a new campaign. It is essentially the initialization  
;; function which is the first one to call.  
;;  
;; @param uint target-goal The crowdfunding goal in micro-STX  
;; @param uint duration The number of blocks till the deadline to reach the  
;;                        crowdfunding goal  
;; @param uint num-milestones The total number of the campaign milestones  
;;  
;; @return an (ok true) response if this is the first time this function is  
;;         called and the target goal, the duration and number of milestones  
;;         are positive (i.e., non-zero) numbers or an error otherwise
```

```
define-public (create-campaign (target-goal      unit)  
                (duration          unit)  
                (num-milestones unit))
```

Public Function: donate()

```
;; Donates the specified amount in micro-STX to the campaign  
;;  
;; @return an (ok `amount`) response where amount is passed argument value if  
;;         the function call succeeds or an error otherwise
```

```
define-public (donate (amount unit))
```

Public Function: vote()

```
;; Cast the user's vote for the specified milestone.
;; To vote the project manager must have posted that milestone and voting should
;; be enabled (i.e., the `can-vote` field is `true` and the campaign status is
;; STATUS_VOTE).
;; The user must have donated to the campaign and is not allowed to vote more
;; than once for the same milestone.
;; - If the user's vote results in a majority vote of confidence, the vote
;; closes immediately and the campaign status is set to STATUS_FUNDED (i.e.,
;; the campaign continues). Only then can the owner claim the milestone funds.
;; - If the user's vote results in a majority vote of no confidence, the vote
;; closes immediately and the campaign status is set to STATUS_CANCELED (i.e.,
;; the campaign is canceled). Only then can the user claim the proportional
;; leftover funds for the funded campaign.
;;
;; @param uint index The index of the milestone to vote for
;; @param bool value `true` means vote of confidence while `false` means vote of
;;                    no confidence
;; @return an (ok true) response if successful or an Err response otherwise
```

```
define-public (vote (index uint)
                 (value bool))
```

Public Function: post-milestone()

```
;; Called by the owner (i.e., project manager) to post a milestone.
;; The owner provides a short description about the accomplishment (or a web URL
;; to a page with the milestone details) which opens the voting window for the
;; users to cast their votes.
;;
;; @param string-ascii details Information about the milestone accomplishment (can
;;                               be a web URL) to help the users decide what to vote
;; @param uint index The milestone index
;;
;; @return an (ok true) response if successful or an Err response otherwise

define-public (post-milestone (details (string-ascii 100))
                              (index  unit))
```

Public Function: claim-milestone-funds()

```
;; The owner claims the funds for the specified milestone provided that the
;; following requirements are met:
;;     1) The campaign status is STATUS_FUNDED which means the users are not
;;         still voting
;;     2) The users approved the campaign for the specified milestone (i.e.,
;;         the `approved` field is `true`).
;; The installment amount is equal to the overall donation amount divided by
;; the number of milestones and is taken proportionally from the donors.
;;
;; @param uint index The index of the milestone to claim the funds for
;;
;; @return an (ok `amount`) response where if the function call succeeds or an
;;         error in case of violation one of the conditions to claim the
;;         milestone or in case of an unexpected error during the STX refund
;;         transaction
```

```
define-public (claim-milestone-funds (index uint))
```

Public Function: claim-refund()

```
;; Refunds the `tx-sender` in any of the following two cases:  
;; Case 1: The campaign did not reach the crowdfunding goal and the deadline  
;;         expired. In this case, the `tx-sender` receives back the full donated  
;;         amount.  
;; Case 2: The campaign was funded but got cancelled later because a vote of  
;;         no confidence was passed. In this case, the `tx-sender` receives the  
;;         a proportional refund from the leftover funds.  
;;  
;; @return an (ok `refunded amount`) response where if the function call  
;;         succeeds or an error (e.g., if the campaign status does not fall  
;;         under any of the two cases above or the `tx-sender` has not donated  
;;         or in case of an unexpected error during the STX refund transaction
```

```
define-public (claim-refund)
```


Public Function: check-deadline()

```
;; Checks the campaign status and if it is other than STATUS-ACTIVE is does  
;; nothing. Otherwise, it checks if the campaign deadline has passed and if so  
;; it sets the status to STATUS-EXPIRED.  
;;  
;; @return an (ok `status`) response where `status` is the campaign status
```

```
define-public (check-deadline)
```

Public Function: check-vote-deadline()

```
;; Checks the campaign status and if it is other than STATUS-VOTE is does  
;; nothing. Otherwise, it checks if the vote deadline has passed and if so  
;; it sets the status to STATUS-FUNDED.  
;;  
;; @return an (ok `status`) response where `status` is the campaign status
```

```
define-public (check-vote-deadline)
```