White Box Testing

Tools used for unit testing:
- mocha
- chai
- chai-http
- nyc (for code coverage)

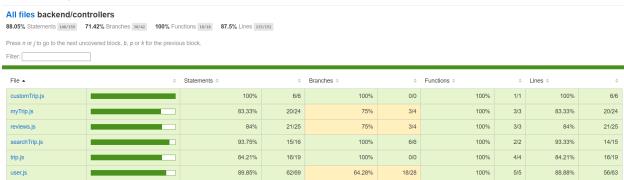**Screenshots of the results of code coverage:**

```
-------------------|----------|----------|----------|----------|-------------------------
File               | % Stmts  | % Branch | % Funcs  | % Lines  | Uncovered Line #s
-------------------|----------|----------|----------|----------|-------------------------
All files          |   90.13  |   65.15  |   96.96  |   90.67  |
 backend           |   97.5   |   100    |   75     |   97.5   |
  index.js         |   97.5   |   100    |   75     |   97.5   | 77
 backend/config    |   100    |   100    |   100    |   100    |
  index.js         |   100    |   100    |   100    |   100    |
 backend/controllers|  88.05  |   71.42  |   100    |   87.5   |
  customTrip.js    |   100    |   100    |   100    |   100    |
  myTrip.js        |   83.33  |   75     |   100    |   83.33  | 21,42,53,66
  reviews.js       |   84     |   75     |   100    |   84     | 16,31,40,55
  searchTrip.js    |   93.75  |   100    |   100    |   93.33  | 35
  trip.js          |   84.21  |   100    |   100    |   84.21  | 29,39,51
  user.js          |   89.85  |   64.28  |   100    |   88.88  | 16,89,132,138,216,228-229
 backend/middlewares|  100    |   100    |   100    |   100    |
  auth.js          |   100    |   100    |   100    |   100    |
  ensureAdmin.js   |   100    |   100    |   100    |   100    |
 backend/models    |   92.5   |   60     |   100    |   97.29  |
  myTrip.js        |   87.5   |   50     |   100    |   87.5   | 31
  review.js        |   100    |   100    |   100    |   100    |
  trip.js          |   100    |   100    |   100    |   100    |
  user.js          |   91.66  |   66.66  |   100    |   100    | 51-67
 backend/routes    |   100    |   100    |   100    |   100    |
  customTrip.js    |   100    |   100    |   100    |   100    |
  myTripRoute.js   |   100    |   100    |   100    |   100    |
  reviewRouter.js  |   100    |   100    |   100    |   100    |
  searchTrip.js    |   100    |   100    |   100    |   100    |
  tripRouter.js    |   100    |   100    |   100    |   100    |
  user.js          |   100    |   100    |   100    |   100    |
 backend/services  |   67.74  |   0      |   100    |   67.74  |
  auth.js          |   100    |   100    |   100    |   100    |
  generateTrip.js  |   56.52  |   0      |   100    |   56.52  | 13-46
 backend/utils     |   80     |   50     |   100    |   85.71  |
  cloudinary.js    |   80     |   50     |   100    |   85.71  | 29-30
-------------------|----------|----------|----------|----------|-------------------------
```

Detailed HTML report:

All files

90.13% Statements 329/365   **65.15%** Branches 43/66   **96.96%** Functions 32/33   **90.67%** Lines 321/354

Press *n* or *j* to go to the next uncovered block, *b*, *p* or *k* for the previous block.

Filter: [_____]

File ▲		Statements ⇅		Branches ⇅		Functions ⇅		Lines ⇅	
backend		97.5%	39/40	100%	0/0	75%	3/4	97.5%	39/40
backend/config		100%	3/3	100%	0/0	100%	0/0	100%	3/3
backend/controllers		88.05%	140/159	71.42%	30/42	100%	18/18	87.5%	133/152
backend/middlewares		100%	21/21	100%	6/6	100%	2/2	100%	21/21
backend/models		92.5%	37/40	60%	6/10	100%	3/3	97.29%	36/37
backend/routes		100%	56/56	100%	0/0	100%	2/2	100%	56/56
backend/services		67.74%	21/31	0%	0/6	100%	3/3	67.74%	21/31
backend/utils		80%	12/15	50%	1/2	100%	1/1	85.71%	12/14

Coverage of controllers:

All files backend/controllers

88.05% Statements 140/159   **71.42%** Branches 30/42   **100%** Functions 18/18   **87.5%** Lines 133/152

Press *n* or *j* to go to the next uncovered block, *b*, *p* or *k* for the previous block.

Filter: [_____]

File ▲		Statements ⇅		Branches ⇅		Functions ⇅		Lines ⇅	
customTrip.js		100%	6/6	100%	0/0	100%	1/1	100%	6/6
myTrip.js		83.33%	20/24	75%	3/4	100%	3/3	83.33%	20/24
reviews.js		84%	21/25	75%	3/4	100%	3/3	84%	21/25
searchTrip.js		93.75%	15/16	100%	6/6	100%	2/2	93.33%	14/15
trip.js		84.21%	16/19	100%	0/0	100%	4/4	84.21%	16/19
user.js		89.85%	62/69	64.28%	18/28	100%	5/5	88.88%	56/63

Coverage of middlewares:

All files backend/middlewares

100% Statements 21/21   **100%** Branches 6/6   **100%** Functions 2/2   **100%** Lines 21/21

Press *n* or *j* to go to the next uncovered block, *b*, *p* or *k* for the previous block.

Filter: [_____]

File ▲		Statements ⇅		Branches ⇅		Functions ⇅		Lines ⇅	
auth.js		100%	9/9	100%	2/2	100%	1/1	100%	9/9
ensureAdmin.js		100%	12/12	100%	4/4	100%	1/1	100%	12/12

Coverage of models:

92.5% Statements `37/40` **60%** Branches `6/10` **100%** Functions `3/3` **97.29%** Lines `36/37`

Press *n* or *j* to go to the next uncovered block, *b*, *p* or *k* for the previous block.

Filter: [   ]

File ▲		Statements ⇕		Branches ⇕		Functions ⇕		Lines ⇕	
myTrip.js		87.5%	7/8	50%	2/4	100%	1/1	87.5%	7/8
review.js		100%	4/4	100%	0/0	100%	0/0	100%	4/4
trip.js		100%	4/4	100%	0/0	100%	0/0	100%	4/4
user.js		91.66%	22/24	66.66%	4/6	100%	2/2	100%	21/21

Coverage of routes:

100% Statements `56/56` **100%** Branches `0/0` **100%** Functions `2/2` **100%** Lines `56/56`

Press *n* or *j* to go to the next uncovered block, *b*, *p* or *k* for the previous block.

Filter: [   ]

File ▲		Statements ⇕		Branches ⇕		Functions ⇕		Lines ⇕	
customTrip.js		100%	5/5	100%	0/0	100%	0/0	100%	5/5
myTripRoute.js		100%	8/8	100%	0/0	100%	0/0	100%	8/8
reviewRouter.js		100%	9/9	100%	0/0	100%	0/0	100%	9/9
searchTrip.js		100%	5/5	100%	0/0	100%	0/0	100%	5/5
tripRouter.js		100%	11/11	100%	0/0	100%	0/0	100%	11/11
user.js		100%	18/18	100%	0/0	100%	2/2	100%	18/18